



# Annai Hajira Women's College

Melapalayam, Tirunelveli-05

(A Unit of As-Sathiq Educational Society)

(Affiliated to Manonmaniam Sundaranar University)

## **CIA QUESTION PAPERS 2021-2022**



# *Annai Hajira Women's College*

*Melapalayam, Tirunelveli-05*

(A Unit of As-Sathiq Educational Society)

(Affiliated to Manonmaniam Sundaranar University)

**DEPARTMENT OF ENGLISH**



**Annai Hajira Women's College**  
**Melapalayam, Tirunelveli-5**

**I SEMESTER, III INTERNAL TEST-DECEMBER-2021**

**I B.A – ENGLISH**  
**BRITISH POETRY**

Date: 15/12/2021

Subject Code: CMEN11

Time: 1 hr

Marks: 20

**PART – A**

Choose the correct answer

2 x 1 = 2

1. The subtitle of the poem, 'The Windhover' is -----

- (a) The Lord Christ
- (b) The Christ Lord
- (c) To Christ our Lord
- (d) Our Lord Christ

2. Who takes Lippo Lippi to the monastery?

- (a) The Policemen
- (b) Aunt Lapaccia
- (c) Cosimo Medici
- (d) The Prior

**PART – B**

Answer all the questions choosing either (a) or (b) 2 x 5 = 10

3. (a) How is the Windhover described by the poet?

(OR)

(b) Discuss the theme of the poem, 'The Lotos-Eaters'.

4. (a) Narrate the struggles of Fra Lippo Lippi.

(OR)

(b) 'Fra Lippo Lippi' as a dramatic monologue – Justify.

**PART – C**

Answer the following choosing either (a) or (b) 1 x 8 = 8

5. (a) Critically analyse the poem, 'To His Coy Mistress' by Andrew Marvell.

(OR)

(b) Write a critical appreciation of the poem, 'The Lotos-Eaters' by Alfred Tennyson.

\*\*\*\*\*

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**MELAPALAYAM - 627 005.**



**Annai Hajira Women's College**  
Melapalayam, Tirunelveli-5

**I SEMESTER, III INTERNAL TEST- DECEMBER-2021**

**I B.A – ENGLISH**

**LITERARY FORMS**

Date: 18/12/2021

Time: 1 hr

Subject Code: CAEN11

Marks: 20

**PART – A**

Choose the correct answer

2 x 1 = 2

1. \_\_\_\_\_ is addressed to a passive listener.

- (a) Soliloquy
- (b) dramatic monologue
- (c) monologue
- (d) chorus

2. Charles Lamb's essays are -----

- (a) personal
- (b) professional
- (c) artificial
- (d) domestic

**PART – B**

Answer all the questions choosing either (a) or (b)

2 x 5 = 10

3. (a) Analyse the length of "One Act play"

(OR)

(b) Explain aphoristic and periodical essays.

4. (a) Explain the uniqueness of dramatic monologue

(OR)

(b) Bring out the elements of "short story"

**PART – C**

Answer all the questions choosing either (a) or (b) 1 x 8 = 8

5.(a) Describe in detail the various kinds of essay in English Literature.

(OR)

(b) Analyse the salient features of the "Dramatic Monologue"

\*\*\*\*\*

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**Melapalayam, Tirunelveli-5**  
**I SEMESTER, III INTERNAL TEST – DECEMBER 2021**  
**I B.A – ENGLISH**  
**ENVIRONMENTAL STUDIES**

Date: 20.12.2021  
Subject Code: AEVS11

Time: 1 hr  
Marks: 20

**Part- A**

**(2 X 1 =2 )**

**I. Choose the correct answer**

1. Pollution from Coal-based power generation plants include .....

- a) Emission of suspended particles
- b) Acid rain
- c) Production of large amount of fly
- d) All of the above

2. The Main reason for Ozone hole is.....

- a) Chlorofluorocarbons
- b) Carbon monoxide
- c) Carbon dioxide
- d) Dust particles

**PART –B (2 x 5 = 10)**

**II. Answer all the questions choosing either (a) or (b)**

3.(a) What are the types of Floods?

**(OR)**

(b) What are the types of Soil Erosion?

4.(a) What do you mean Biodiversity?

**(OR)**

(b) What are the causes of Endangering?

**PART –C**

**(1 x 8 = 8)**

**III. Answer all the questions choosing either (a) or (b)**

5. (a) Explain values of Biodiversity.

**(OR)**

(b) Explain Bio geographical classification.

\*\*\*\*\*

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**I SEMESTER, III INTERNAL TEST- December -2021**

**I B.A – ENGLISH**

**PROFESSIONAL ENGLISH FOR ARTS AND SOCIAL SCIENCE**

**Date: 17. 12. 2021**

**Time: 1 hr**

**Subject Code: CPSS11**

**Marks: 20**

**PART – A**

**I Choose the correct answer**

**2 x 1 = 2**

1. Describe the meaning of 'rebelliousness'.

- (a) To agree
- (b) To protest or rebel
- (c) To laugh
- (d) To happy

2. Give synonyms for chaotic

- (a) Pandemonium
- (b) Fixed
- (c) Orderly
- (d) Unstable

**PART – B**

**II Answer all the questions choosing either (a) or (b) 2 x 5 = 10**

3.(a) Sketch mind map for any one of the following

- (i) Personality types
- (ii) Social hierarchy

**(OR)**

(b) Define mind mapping.

4.(a) Take a close look at the map given below and answer the following questions.



1. Which continent has the lowest literacy rates?
2. Where do you find the highest literacy?
3. Which continent has 100% literacy?
4. What does the map say about literacy in India?
5. Comment on literacy in South America

**(OR)**

(b) Describe the purpose and ways of writing recommendations, with examples.

**PART – C**

**III Answer the following choosing either (a) or (b) 1 x 8 = 8**

5. (a) Read the transcript of APJ Kalam's speech and answer the questions given below.:

APJ Abdul Kalam's speech at IIT Madras 2010 Friends, before I begin my address I want to share a thought with all the youth present here. I have met, so far, 11 million youth like you in a decade's time, in India and abroad. I have seen their hopes, experienced their pains, walked with their aspirations and heard through their despair. All this experience made me learn something about them, which I would like to share with you:

I learnt, every youth wants to be unique, that is, YOU! But the world all around you, is doing its best, day and night, to make you just "everybody else". Being like everybody else is convenient at the first glance, but not satisfying in the long vision. The challenge, therefore, my young friends, is that you have to fight the hardest battle, which any human being can ever imagine to fight; and never stop fighting until you arrive at your destined place, that is, a **UNIQUE YOU!**

Being unique will require excellence, let us understand what is excellence in more detail. Excellence is a self-imposed self-directed life-long process. Excellence is not by accident. It is a process, where an individual, organization or nation, continuously strives to better oneself. The performance standards are set by themselves, they work on their dreams with focus and are prepared to take calculated risks and do not get deterred by failures as they move towards their dreams. Then they step up their dreams as they tend to reach the original targets. They strive to work to their potential, in the process, they increase their performance thereby multiplying further their potential and this is an unending life cycle phenomenon. They are not in competition with anyone else, but themselves.

In this context, I will talk to you about four important aspects in life with my experiences. Aim in life, Acquiring Knowledge, Working Hard towards your dream even in the times of difficulty and then finally how to manage failures and success in life.

#### Questions

- 1) What does the author mean when he says I have seen their hopes.... Heard through their despair?
- 2) What does the author mean by "UNIQUE YOU"?

- 3) What does the world around you wants you to be according to the passage?
- 4) How according to the author APJ Abdul Kalam. the pursuit of excellence achieved?
- 5) What is the "unending life cycle phenomena", that the author is referring to?

OR

- (b) Write recommendations for visiting a shopping mall in the midst of the Covid 19 pandemic

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**I SEMESTER, III INTERNAL TEST- DECEMBER-2021**

**I B.A - ENGLISH**

**SOCIAL HISTORY OF ENGLAND**

**Date: 16/12/2021**

**Time: 1 hr**

**Subject Code: CMEN13**

**Marks: 20**

**PART - A**

**Choose the correct answer**

**2 x 1 = 2**

1. Queen Victoria succeeded to the throne of England after -----

- (a) William IV
- (b) Edward VII
- (c) George IV
- (d) George III

2. During Victorian Era, a fashionable circle of women intellectuals were known as -----

- (a) Protestants
- (b) University Wits
- (c) Bluestockings
- (d) Presbyterians

**PART - B**

**Answer all the questions choosing either (a) or (b) 2 x 5 = 10**

5. (a) Elucidate the life of Scotland at the time of the Union of 1707.  
**(OR)**  
 (b) Explain the England of Charles and Cromwell according to T. G. Trevelyan.
6. (a) Give a brief account about the contribution of Caxton to England at his age.  
**(OR)**  
 (b) Explain Dr. Johnson's life and works of England I during his earlier period

**PART - C**

**III Answer the following choosing either (a) or (b) (1 x 8 = 8)**

7. (a) Explain in detail about the people's life in the second half of the Victorian Era.  
**(OR)**  
 (b) Discuss the time of Scotland at the end of the Eighteenth Century.

\*\*\*\*\*

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**II SEMESTER, I INTERNAL TEST- March-2022**

**I BA English**

**VALUE BASED EDUCATION**

**Date: 16.03.2022**

**Subject Code: CVBE21**

**Time: 1 hr**

**Marks: 20**

**PART - A**

**I Choose the correct answer**

**2 x 1 = 2**

1. Social justice stands for \_\_\_\_.

- (a) equality
- (b) inequality
- (c) marginalization
- (d) social exclusion

2. Who advocate for the abolition of caste system

- (a) Dr. B. R. Ambedkar
- (b) Shri Rajaji
- (c) Dr. Rajendra Prasad
- (d) Dr. Radhakrishnan

**PART - B**

**II Answer all the questions choosing either (a) or (b) 2 x 5 = 10**

3. (a) Elaborate the concept of social justice

**(OR)**

(b) Explain the causes of social injustice

4. (a) Write a short note on social reformers.

**(OR)**

(b) Discuss the factors causing social injustice in India.

**PART - C**

**III Answer the following choosing either (a) or (b) 1 x 8 = 8**

5. (a) Explain the need of social justice

**(OR)**

(b) Explain the contribution of B. R. Ambedkar to the Indian society

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**II SEMESTER, I INTERNAL TEST- MARCH-2022**  
**I B.A – ENGLISH**

**PROFESSIONAL ENGLISH FOR ARTS AND SCIENCE**

Date: 17/03/2022

Time: 1 hr

Subject Code: CPSS21

Marks: 20

**PART – A**

**I Answer the following questions**

2 x 1 = 2

1. Who issued the Emancipation proclamation act on January 1863?
2. Give the Antonyms for the word: Rebellious

**PART – B**

**II Answer all the questions choosing either (a) or (b)**

2 x 5 = 10

2. (a) Give the Synonyms for the following Words

- i. Emancipation
- ii. Seared
- iii. Sweltering
- iv. Nullification
- v. Jangling

(OR)

(b) Match the Following:

- i. Adaptability - to legally take another person's child into your Family and take care of him as your own child
- ii. Adoption - Change oneself according to situations
- iii. Stationary - Writing materials
- iv. Stationery - the best possible; Perfect
- v. Ideal - not moving, not changing

3. (a) Give the Synonyms for the following words:

- 1) Emancipation -
- 2) Seared -
- 3) Sweltering -
- 4) Nullification -
- 5) Jangling -

(OR)

(b) State whether the following statement are true or false:

- 1) Loksabha gets dissolved every five years.
- 2) Rajyasabha is not a permanent body.
- 3) The verdict of Supreme Court is ultimate.
- 4) The first speaker of free India is Sarojini Naidu.
- 5) The press needs to play the role of watch dog.

**PART – C**

Answer the following choosing either (a) or (b)

1 x 8 = 8

4. (a) Write a group discussion on the following topic.

"Present Status of Indian Economy"

(OR)

(b) Look at the following picture, and write an essay about them.



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**II SEMESTER, I INTERNAL TEST- March-2022**

**I BA English – ENGLISH**

**BRITISH DRAMA**

Date: ~~18.03.2022~~ <sup>23.03.2022</sup>  
Subject Code: CMEN21

Time: 1 hr  
Marks: 20

**PART – A**

**I Choose the correct answer** 2 x 1 = 2

1. John Dryden's All for Love is an extract from Shakespeare's \_\_\_\_\_  
(a) Julius Caesar  
(b) Antony and Cleopatra  
(c) Hamlet  
(d) Henry IV

2. \_\_\_\_\_ is called the Father of English Drama.  
(a) Seneca  
(b) Dryden  
(c) Shakespeare  
(d) Christopher Marlowe

**PART – B**

**II Answer all the questions choosing either (a) or (b) 2 x 5 = 10**

3. (a) Write a short note on the writing style of Christopher Marlowe.  
(OR)  
(b) Attempt a note on John Dryden.
4. (a) Write about the historical context of the play Edward II.  
(OR)  
(b) Comment on the opening scene of the play All for Love

**PART – C**

Answer the following choosing either (a) or (b) 1 x 8 = 8

5. (a) Write a short note on the evolution of English drama.

**(OR)**

- (b) Discuss All for Love as a classical tragedy.

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# Annai Hajira Women's College

Melapalayam, Tirumelveli

IV SEMESTER, I INTERNAL TEST- MARCH-2022

II B.A – ENGLISH

BRITISH DRAMA

Date: 17/03/2022

Time: 1 hr

Subject Code: AMEN42

Marks: 20

## PART – A

I Choose the correct answer

2 x 1 = 2

1. Which of the following is not an example of Marlowe's Vanity?  
(a) His worry about clothes  
(b) His worry about Education  
(c) His worry about women's beauty  
(d) His worry about the social standing
2. Why did Hasting's hide his identity?  
(a) He wants to elope with Constance Neville  
(b) He is poor  
(c) He wants to play a practical joke  
(d) He is a criminal

## PART – B

II Answer all the questions choosing either (a) or (b) 2 x 5 = 10

3. (a) Bring out the structure of the play "She Stoops to Conquer".  
(OR)  
(b) How does Charles Marlowe define himself in "She Stoops to Conquer"?

4. (a) Write briefly on the aptness of the title the play "She Stoops to Conquer".

(OR)

- (b) Write a note on the first meeting of Miss Hard Castle with Marlowe.

## PART – C

Answer the following choosing either (a) or (b) 1 x 8 = 8

5. (a) What light does the opening scene throw on the different characters and the relationships among them in the play "She Stoops to Conquer"?

(OR)

- (b) Attempt an essay on the role of Tony Lumpkin in "She Stoops to Conquer".

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# Annai Hajira Women's College

Melapalayam, Tirumelveli - 05

Department of Mathematics

IV SEMESTER, I INTERNAL TEST - MARCH - 2022

II B. A - ENGLISH

MATHEMATICS FOR COMPETITIVE EXAMINATION II

Max. Mark: 20

Max. Hour: 1 hour

Subject Code: ANMA41

Date: 18-03-2022

18.03.22

PART -A

(2 X 1=2 marks)

I. Choose the correct answer

1. The money borrowed or lent out for a certain period is called -----

- a) Principal
- b) Interest
- c) Simple interest
- d) Compound interest

2. Find the simple interest on Rs.68, 000 at  $16\frac{2}{3}\%$  per annum for 9 months.

- a) Rs.5000
- b) Rs.8500
- c) 6500
- d) 2340

PART -B (2X5=10 marks)

II. Answer all the questions, choosing either (a) or (b)

3. a) Find the simple interest on Rs.3000 at  $6\frac{1}{4}\%$  per annum for the period from 4<sup>th</sup> Feb,2005 to 18<sup>th</sup> April,2005.

(OR)

b) A sum at simple interest at  $13\frac{1}{2}\%$  per annum amounts to Rs.2502.50 after 4 years. Find the sum.

4. a) A sum of Rs.800 amounts to Rs.920 in 3 years at simple interest. If the interest rate is increased by 3% it would amount to how much?

(OR)

b) The simple interest on a sum of money is  $\frac{4}{9}$  of the principal. Find the rate percent and time, if both are numerically equal.

PART -C

(1 X 8=8 marks)

III. Answer the questions, choosing either (a) or (b)

5. a) David invested certain amount in three different schemes A,B and C with the rate of interest 10% p.a., 12% p.a., and 15% p.a., respectively. If the total interest accrued in one year was Rs.3200 and the amount invested in Scheme C was 150% of the amount invested in Scheme A and 240% of the amount invested in Scheme B, what was the amount invested in Scheme B?

(OR)

b) Divide Rs.2379 into 3 parts so that their amounts after 2,3 and 4 years respectively may be equal, the rate of interest being 5% per annum at simple interest. Find the first part.

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**Annai Hajira Women's College**  
 Melapalayam, Tirunelveli  
 IV SEMESTER, I INTERNAL TEST- MARCH-2022  
 II B.A – ENGLISH  
CHICANO & CARIBBEAN LITERATURE

Date: 21/03/2022 Time: 1 hr  
 Subject Code: AAEN41 Marks: 20

**PART – A**

I Choose the correct answer 2 x 1 = 2

- They call the border "the \_\_\_\_\_ curtain".  
 (a) Barrio  
 (b) Tortilla  
 (c) Pachuco  
 (d) Tacos
- Which is the largest tribal group in Kenya?  
 (a) kikuyu  
 (b) kamba  
 (c) Luo  
 (d) Kalenjin

**PART – B**

II Answer all the questions choosing either (a) or (b) 2 x 5 = 10

- (a) How does Jamaica Kincaid reveal a world of mysterious forces in her short story "In the Night".

(OR)

- (b) Explain the autobiographical elements in "In the Night".

- (a) Summarize the preface to "Across the Wire" by Luis Alberto Urrea

(OR)

- (b) What does Urrea convey through the preface to "Across the Wire"?

**PART – C**

Answer the following choosing either (a) or (b) 1 x 8 = 8

- (a) How does Derek Walcott represent the pain to be resisting against British culture?

(OR)

- (b) Explain how the poem "Black Woman" describes the experience of black Cuban women through the nation's history.

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# Annai Hajira Women's College

Melapalayam, Tirunelveli

IV SEMESTER, I INTERNAL TEST- MARCH-2022

II B.A – ENGLISH

ECO-ENGLISH

Date: 22. 03. 2022

Time: 1 hr

Subject Code: ASEN4A

Marks: 20

PART – A

I. Choose the Correct Meaning for Each Word from the Ones Given Below

1. Blasphemous –

a) Praising God

b) Speaking against God

c) Believing God

d) Blaming Politicians

2. Cataclysm –

a) Blurred and not clear

b) A kind of clauses

c) A Sudden & Violent change

d) None

PART – B

3. a) Find the –ing word with the help of the clues given:

i) A pool of water where people swim: \_\_\_\_\_ (N)

ii) A place where water is coming up from the ground: \_\_\_\_\_ (N)

iii) Jump suddenly from the ground: \_\_\_\_\_ (V)

iv) A top inner surface of a room: \_\_\_\_\_ (N)

v) A time before sunset: \_\_\_\_\_ (N)

(OR)

b) Break the following words into syllable and mark the syllable that is stressed:

i) Human ii) Multiplied iii) Increased iv) Menace v) Addition

4. a) Write a report about how fake astrologers cheat people with their So-called predictions

(OR)

b) Write your reaction to the prediction of the Hindus about the future world.

PART – C

III. Answer the Following question:

5) a) Imagine you are the Secretary of a non-political and non-profit group called Friends of the Earth (FoE). To make people aware of the key issues about environment preservation; Write a one page publicity material for FoE.

(OR)

b) Imagine you are Columbus. Record your interaction with the Mayans their language, culture, habits, predictions, etc., you record your encounter in the form of a dialogue with the Mayans.

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# Annai Hajira Women's College

Melapalayam, Tirumelveli-5

VI SEMESTER, I INTERNAL TEST- MARCH-2022

III B.A – ENGLISH

SOUTH ASIAN LITERATURE IN ENGLISH

Date: 15/03/2022

Time: 1 hr

Subject Code: SMEN62

Marks: 20

## PART – A

I Choose the correct answer

2 x 1 = 2

1. Name the character who tells the line, "Like a compass needle that points north, a man's accusing finger always finds a woman."  
(a) Mariam  
(b) Nana  
(c) Fariba  
(d) Bibi Jo
2. Who is referred to as 1084 in the play, *Mother of 1084*?  
(a) Sujata  
(b) Dibyanath  
(c) Brati  
(d) Tuli

## PART – B

II Answer all the questions choosing either (a) or (b) 2 x 5 = 10

3. (a) How does the author narrate the refugee crisis in the prose, *Martand*?

(OR)

- (b) Describe Mariam's visit to Herat and the tragedy that followed.

4. (a) How does the two women become the victims of the society in the story, *The Assault*?

(OR)

- (b) Write a note on the reactions of the family members to Brati's death in the play, *Mother of 1084*.

PART – C

III Answer the following choosing either (a) or (b)

1 x 8 = 8

5. (a) Analyse the different perspectives of the characters in *Martand*.

(OR)

- (b) Elucidate the impacts of gender oppression in Mariam's life.

\*\*\*\*\*

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**Annai Hajira Women's College**  
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**VI SEMESTER, I INTERNAL TEST- MARCH-2022**  
**III B.A – ENGLISH**  
**SHORT STORIES & ONE-ACT PLAYS**

Date: 16/03/2022

Subject Code: SMEN63

Time: 1 hr

Marks: 20

**PART – A**

**I Choose the correct answer**

**2 x 1 = 2**

1. Mr. Brown has bought a \_\_\_\_\_ for his son for Christmas.  
(a) aeroplane  
(b) automatic train  
(c) toy aeroplane  
(d) cigars
2. Iona's first customer was a man dressed in a \_\_\_\_\_.  
(a) overcoat  
(b) military uniform  
(c) driver's uniform  
(d) porter's uniform

**PART – B**

**II Answer all the questions choosing either (a) or (b) 2 x 5 = 10**

3. (a) Comment on the significance of the title of the story *Misery*.  
(OR)  
(b) Discuss the story *The Errors of Santa Claus* as a satire.
4. (a) Compare and contrast the characters of Mrs. Pearson and Mrs. Fitzgerald.  
(OR)  
(b) Contrast the characters of Isabel and Else in relation with class consciousness.

**PART – C**

**Answer the following choosing either (a) or (b) 1 x 8 = 8**


5. (a) Why is Mrs. Pearson unhappy? How does Mrs. Pearson's new behavior affect the members of her family?

**(OR)**

- (b) How does the author bring out the ugly nature of society through the story of the girls' doll house?

\*\*\*\*\*

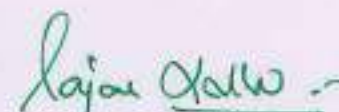
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VI SEMESTER, I INTERNAL TEST- MARCH-2022  
III B.A – ENGLISH  
REGIONAL LITERATURE IN TRANSLATION

Date: 17/03/2022  
Subject Code: SMEN64

Time: 1 hr  
Marks: 20

**PART – A**

I Choose the correct answer

2 x 1 = 2

1. In the play "Naga-Mandala" by Girish Karnad the cobra creeps into Rani's house through \_\_\_\_\_
- (a) the main gate  
(b) the Window  
(c) the bathroom drain  
(d) None of these
2. To live a life \_\_\_\_\_ is like a withered tree.
- (a) with love  
(b) Void of love  
(c) void of learning  
(d) None of these

**PART – B**

II Answer all the questions choosing either (a) or (b) 2 x 5 = 10

3. a) How is the need for learning emphasized in "Thirukkural"?  
(OR)  
(b) What is Thiruvalluvar concept on "Gratitude"?
4. a) Sketch the character of Appanna in "Naga-Mandala".  
(OR)  
(b) Sketch the Character of Rani in "Naga-Mandala".

**PART – C**

III Answer the following choosing either (a) or (b) 1 x 8 = 8

5. Attempt an essay on social milieu in "Naga-Manadala".

(OR)

(b) Explain the concept of the 'Possession of love' in "Thirukkural".

\*\*\*\*\*

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# Annai Hajira Women's College

Melapalayam, Tirunelveli

VI SEMESTER, I INTERNAL TEST- MARCH-2022

III B.A – ENGLISH

AFRICAN LITERATURE

Date: <sup>23</sup>18/03/2022

Subject Code: SEEN6A

Time: 1 hr

Marks: 20

## PART-A

I. Choose the correct answer: (2X 1=2Marks)

1. In the poem, *Dear Child*, the city askaris chase off the child from the parking bays like \_\_\_\_\_.

- (a) Hunting dog
- (b) Pecking hen
- (c) Cunning cat
- (d) Pilfering rat

2. Who is the author of *Things Fall Apart*?

- (a) Wole Soyinka
- (b) Nadine Gardiner
- (c) Chinua Achebe
- (d) Maya Angelo

## PART – B (2 X5 =10 marks)

II. Answer all the questions choosing either (a) or (b)

3.(a) Bring out the theme of apartheid in the poem, *Dear Child*.

(OR)

(b) Write a short note on Anti-apartheid Movement.

4.(a) How does Wole Soyinka display racism in the poem, *Telephone Conversation* (OR)

(b) Discuss the major themes of the poem, *Telephone Conversation*.

## PART – C

(1 x 8= 8 Marks)

III. Answer all the questions choosing either (a) or (b)

5.(a) What did Mazisi Kunene mean by saying "We are not the driftwood of distant oceans" in *A Note to All Surviving Africans*?

(OR)

(b) Justify the title of the poem, *A Note to All Surviving Africans*.

\*\*\*\*\*

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# Annai Hajira Women's College

Melapalayam, Tirunelveli

VI SEMESTER, I INTERNAL TEST- MARCH-2022

III B.A – ENGLISH

SHAKESPEARE

Date: 21. 03. 2022

Time: 1 hr

Subject Code: SMEN61

Marks: 20

## PART-A

I. Choose the correct answer (2X 1=2Marks)

1. Orlando and Rosalind meet in a/the \_\_\_\_\_.

- (a) Wedding of Duke Frederick
- (b) Wrestling match
- (c) Public execution
- (d) Travelling circus

2. Who is Touchstone?

- (a) A Soldier
- (b) The Court-jester
- (c) Brother of Rosalind
- (d) Fool

## PART – B (2 X5 =10 marks)

II. Choose any two question from the following:

3. (a) Write a note on the banished Duke's life on the Forest of Arden.

(OR)

(b) Sketch the character of Orlando

4. (a) Give a short note on Shakespeare's life and career.

(OR)

(b) Critically analyze the Sonnet "Shall I compare thee to a summer's day?"

## PART – C

(1 x 8= 8 Marks)

III. Answer all the questions choosing either (a) or (b)

5(a) Discuss "As You like It" as a romantic Comedy.

(OR)

(b) "Shakespeare has no heroes, but only Heroines"- Elucidate the sayings of John Ruskin in your own words

\*\*\*\*\*

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# Annai Hajira Women's College

Melapalayam, Tirunelveli-5

**II SEMESTER, II INTERNAL TEST- APRIL-2022**

**I B.A - English**

**VALUE BASED EDUCATION**

Date: 16/04/2022

Subject Code: CVB21

Time: 1 hr

Marks: 20

## PART - A

**I Choose the correct answer**

**2 x 1 = 2**

1. In which year, the UNO made a resolution of women's the right to vote all over the world?  
(a) 1951  
(b) 1952  
(c) 1957  
(d) 1962
2. Who stopped the custom of immolated themselves on the funeral pyre of their husbands?  
(a) Rajaji  
(b) Periyar  
(c) Rajaram Vchan Roy  
(d) Kamarajar

## PART - B

**II Answer all the questions choosing either (a) or (b) 2 x 5 = 10**

3. (a) What are Human Rights?

**(OR)**

(b) Describe any three Human Rights enshrined in the constitution of India.

4. (a) Explain the dowry problems encountered by Indian Women

**(OR)**

(b) Critically examine Women's rights

## PART - C

**III Answer the following choosing either (a) or (b)**

**1 x 8 = 8**

5. (a) Elucidate the various problems affecting women?

**(OR)**

(b) Assess the achievements of United Nations in the fields of Human rights?

\*\*\*\*\*

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**II SEMESTER, II INTERNAL TEST- APRIL-2022**

**I B.A - English**

**PROFESSIONAL ENGLISH FOR ARTS AND SCIENCES II**

**Date: 16/04/2022**

**Time: 1 hr**

**Subject Code: CPSS21**

**Marks: 20**

**PART - A**

**I Answer the following questions**

**2 x 1 = 2**

1. Apple ipad Air (2020) Wi-fi tablet was launched on \_\_\_\_\_  
 (a) 15<sup>th</sup> September 2020  
 (b) 16<sup>th</sup> September 2020  
 (c) 17<sup>th</sup> September 2020  
 (d) 18<sup>th</sup> September 2020

2. Study of literature offers \_\_\_\_\_ and \_\_\_\_\_ to readers.  
 (a) delight and knowledge  
 (b) pleasure and relaxation  
 (c) reading and writing  
 (d) language and knowledge

**PART - B**

**II Answer all the questions choosing either (a) or (b)**

**2 x 5 = 10**

3. Distinguish between "Debate" and "Just a minute"  
**(OR)**

What are the key components of 'Just a minute'?

4. Based on the model pro-and-con chart, prepare chart on the topic  
 "Profit or Ethics in Business"

**(OR)**

Make a speech on the following topics for just 5 minutes

- i. Indian Society  
 ii. Nobel Prize  
 iii. Ancient History

**PART - C**

**III Answer the following choosing either (a) or (b)**

**1 x 8 = 8**

5. (a) Write a dialogue between a sociologist and political scientist on the need for strengthening democracy.

**(OR)**

(b) Find out the meanings of the following words and make sentences on your own by using them.

- i. Repository  
 ii. Pastures  
 iii. Endeavours  
 iv. Earnest  
 v. Expatriate upon  
 vi. Dictum

\*\*\*\*\*

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Melapalayam, Tirunelveli

II SEMESTER, II INTERNAL TEST- APRIL -2022

I B.A - English

MODERN ENGLISH GRAMMAR & USAGE

Date: 24/04/2022

Time: 1 hr

Subject Code: CAEN21

Marks: 20

## PART - A

I Choose the correct answer

2 x 1 = 2

1. The articles are called as ----- Adjectives.

- (a) Interrogative
- (b) Demonstrative
- (c) Indefinite
- (d) Distributive

2. The pronouns like *thou, thine, thee, ye, yours* are said to be in the \_\_\_\_\_, because they stand for the person spoken to.

- (a) First Person
- (b) Second Person
- (c) Third Person
- (d) None of the above

## PART - B

II Answer all the questions choosing either (a) or (b)

2 x 5 = 10

3. (a) Correct the following sentences:

- i. One of my relations have settled down in Canada.
- ii. The secretary and Treasurer quarrelled with each other.
- iii. The Principal wants to see Krishnan and yourself.
- iv. Have they not invited your wife and yourself to the party?
- v. Balbir is one of the players who has been selected for the Test Match.

(OR)

(b) Fill in with appropriate articles:

- i. ----- higher you climb ----- colder it gets.
- ii. After ----- year or two ----- question can be reconsidered.
- iii. -----stitch in time saves nine.
- iv. I saw ----- hawker selling his wares in ----- street.
- v. There was ----- ugly scar on ----- face of ----- prisoner.

4. (a) Do as directed:

- i. Arun will be going to Kolkata next week. (Identify the *tense*)
- ii. The wind is blowing fiercely. (Identify the *tense*)
- iii. He felt that he -----by the shopkeeper (cheat). (Use the correct form of *verb*)
- iv. He ----- tomorrow (come). (use the correct form of *verb*)
- v. They have planned a tour next week. (Change into *passive voice*)

(OR)

(b) Correct the following sentences.

- i. You are stronger than ----- (he/him)
- ii. The soldiers fought among ----- in the battle field. (each other/one another)
- iii. ----- bags are very costly. (This/ That/ These/ Those)
- iv. The man ----- stands at the gate is my uncle. (Use *relative pronoun*)
- v. I ----- prepared the tea. (Use *reflexive pronoun*)

## PART - C

III Answer the following choosing either (a) or (b)

1 x 8 = 8

5. (a) Define Pronoun and explain its types in detail.

(OR)

(b) Explain the uses of definite and indefinite articles.

\*\*\*\*\*

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# Annai Hajira Women's College

Melapalayam, Tirumelveli-5

IV SEMESTER, II INTERNAL TEST- APRIL-2022

II B.A / II B.Sc (Mathematics, Physics & Chemistry)

**PART-II ENGLISH**

Date: 13/04/2022

Subject Code: A2EN41

Time: 1 hr

Marks: 20

## PART - A

I Choose the correct answer

2 x 1 = 2

- Who are the 'lazy cowards' according to A P J Abdul Kalam?
  - Dishonest people
  - People who migrate to other countries
  - People who spit on the streets
  - People who don't obey rules
- Name the collection from which the poem, *If You Call Me* has been taken.
  - The Golden Threshold*
  - The Gate of Delight*
  - The Bird of Time*
  - The Broken Wing*

## PART - B

2 x 5 = 10

II Answer all the questions choosing either (a) or (b)

- (a) Explain with Reference to the Context:
  - Life's dark tides may roll between,  
Or Death's deep chasms divide*
  - "We go to the polls to choose a government and after that forfeit all responsibility."

(OR)

- Write an E-mail to the Manager of Smart Automotive Company regarding the poor quality of service facility available in the city.

4. (a) Transform the following sentences:

- What a pity you can't attend the wedding! (Into **Assertive** Sentence)
- She danced very beautifully. (Into **Exclamatory** Sentence)
- Who does not know that two and two makes four? (Into **Assertive** Sentence)
- Shall I ever forget those happy days? (Into **Assertive** Sentence)
- Please, get me a glass of water. (Into **Interrogative** Sentence)

(OR)

(b) Combine each of the following sentences:

- He knows Urdu. He knows also Hindi. (Into **Compound** sentence)
- Milton was the Homer of England. He wrote *Paradise Lost*. It is the greatest epic poem in English. (Into **Simple** sentence)
- The rain stopped. We continued the match. We played till the sun set. (Into **Simple** sentence)
- Siraj plays Hockey. He plays cricket as well. (Into **Compound** sentence)
- The strike was going to be called off. He told me that. (Into **Complex** sentence)

## PART - C

Answer the following choosing either (a) or (b)

1 x 8 = 8

- (a) Give an account of the final scene in the play, *Othello*.
 

(OR)

 (b) Elucidate A P J Abdul Kalam's visions for India and his criticism against Indian media.

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IV SEMESTER, II INTERNAL TEST- APRIL-2022

II B.A-English

HISTORY OF ENGLISH LITERATURE - II

Date: 16/04/2022

Subject Code: AMEN41

Time: 1 hr

Marks: 20

**PART - A**

I Choose the correct answer

2 x 1 = 2

1. Who described Good Poetry as 'the spontaneous overflow of powerful feelings'?  
(a) Milton  
(b) Dryden  
(c) William Wordsworth  
(d) Coleridge
2. Which work of Coleridge contains great literary criticism?  
(a) Christabel  
(b) The Ancient Mariner  
(c) Kubla Khan  
(d) Biographia Literaria

**PART - B**

II Answer any two questions from the following: 2 x 5 = 10

3. (a) Analyze the supernatural elements in the poetry of Coleridge.  
(OR)  
(b) Write short notes on Sir Walter Scott.
4. (a) What are the characteristics of Romantic Age?  
(OR)  
(b) What is Romanticism according to John Keats?

**PART - C**

III Answer the following choosing either (a) or (b)

1 x 8 = 8

5. (a) Discuss Wordsworth as a Poet of Nature.

(OR)

(b) Write an essay on the later Romantic Poets – Shelley, Keats & Byron.

\*\*\*\*\*

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**IV SEMESTER, II INTERNAL TEST- APRIL -2022**

**II B.A - English**  
**BRITISH DRAMA**

Date: 18/04/2022  
Subject Code: AMEN42

Time: 1 hr  
Marks: 20

**PART - A**

**I Choose the correct answer**

**2 x 1 = 2**

1. *Candida* is enthusiastically described by her husband as an -----  
(a) Fighter cock  
(b) Criminal  
(c) Hypocrite  
(d) Angel
2. How many acts are there in *The School for Scandal*?  
(a) 5  
(b) 3  
(c) 2  
(d) 4

**PART - B**

**II Answer all the questions choosing either (a) or (b) 2 x 5 = 10**

3. (a) Why does Charles refuse to sell the portrait of Sir Oliver in *The School for Scandal*?  
(OR)  
(b) What made Lady Teazle accuse Joseph in *The School for Scandal*?
4. (a) Describe the political background as portrayed in *Candida*.  
(OR)  
(b) Sketch the character of Marchbanks in the play *Candida*.

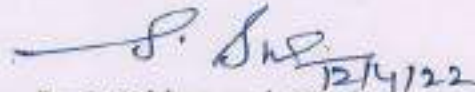
**PART - C**

**III Answer the following choosing either (a) or (b) 1 x 8 = 8**

5. (a) Attempt an essay on the symbols used in *The School for Scandal*  
(OR)  
(b) Examine the Christian Socialism as manifested in the play *Candida*.

\*\*\*\*\*

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# Annai Hajira Women's College

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IV SEMESTER, II INTERNAL TEST- April-2022

ALL II YEARS B.Com/B.A English/Physics

B.Sc. Mathematics/Chemistry/Computer Science

Computers for Digital Era

Date: 20.04.2022

Time: 1 hr

Subject Code: ACDE41

Marks: 20

## PART - A

I. Choose the correct answer (20 x 1=20 marks)

1. Which of the following is/are operating system?

- A. Windows
- B. Android
- C. Linux
- D. All of the above

2. An example for hardware device.....

- A. I/O devices
- B. C++
- C. Data
- D. Program

3. OSS in computer software is.....

- A. Open-Source Software
- B. Open Software Source
- C. Open System Source
- D. Open System Software

4. Which of the following is/are web browser?

- A. Internet Explorer
- B. Firefox
- C. Opera
- D. All of the above

5..... operating system is used in the mobile devices.

- A. Android
- B. C
- C. Java
- D. Firefox

6..... is an example for Office Package.

- A) Apache Open Office
- B) Microsoft Office
- C) Both (A) and (B)
- D) None of the above

7. OS manages.....

- A. computer hardware resources
- B. peripherals
- C. storage space
- D. All of the above

8..... is responsible for loading application and also for supporting the process execution.

- A. Monitor
- B. Printer
- C. Operating System
- D. Keyboard

9..... kind of software that can be used only by the licensed users.

- A. Proprietary Software
- B. Open software
- C. Both (A. and (B.
- D. None of the above



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IV SEMESTER, INTERNAL TEST- APRIL -2022

II B.A - English

CHICANO & CARIBBEAN LITERATURE

Date: 20/04/2022

Subject Code: AAEN41

Time: 1 hr

Marks: 20

**PART - A**

I Choose the correct answer

2 x 1 = 2

1. Fito is narrator's -----  
 (a) elder cousin  
 (b) elder brother  
 (c) younger cousin  
 (d) younger brother
2. The cloud was a sky without a -----  
 (a) hat  
 (b) handkerchief  
 (c) jacket  
 (d) bed sheet

**PART - B**

II Answer all the questions choosing either (a) or (b) 2 x 5 = 10

3. (a) What effect do the series of images have on the overall mood of the poem *Cloud*?

(OR)

- (b) Explain the allegory in the story *Summer Lightning*.

4. (a) Where does the story begin? Describe the Jimenez family's life there.

(OR)

- (b) How are different objects interconnected in the poem *Cloud*?

**PART - C**

III Answer the following choosing either (a) or (b)

1 x 8 = 8

5. (a) Critically appreciate the play *Dream on Monkey Mountain* by Derek Walcott.

(OR)

- (b) Bring out the mythological aspects of Derek Walcott's *Dream on a Monkey Mountain*.

\*\*\*\*\*

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**IV SEMESTER, II INTERNAL TEST- APRIL -2022**

**II B.A - English**  
**ECO-ENGLISH**

**Date: 22/04/2022**  
**Subject Code: ASEN4A**

**Time: 1 hr**  
**Marks: 20**

**PART - A**

**I Choose the correct answer** **2 x 1 = 2**

1. A mass of earth, rock, etc that falls down the slope of a mountain is a ----

- (a) Landslide
- (b) Tornado
- (c) Hurricane
- (d) Typhoon

2. Earth Day is on -----

- (a) 22 April
- (b) 22 March
- (c) 22 May
- (d) 23 April

**PART - B**

**II Answer all the questions choosing either (a) or (b)** **2 x 5 = 10**

3. (a) Mark the stress for the words given below:

- |              |                |
|--------------|----------------|
| i. Survive   | vi. Rubbish    |
| ii. Debate   | vii. Global    |
| iii. Warming | viii. Farewell |
| iv. Nature   | ix. Matter     |
| v. Weight    | x. Water       |

**(OR)**

(b) Make sentences of your own with the help of the words given below:

- i. Two - Too
- ii. Fill - Feel
- iii. Weight - Wait
- iv. Dye - Die
- v. Late - Let

4. (a) Write the comparative and superlative forms of the following:

- |              |               |
|--------------|---------------|
| i. Rich      | ii. Beautiful |
| iii. Loud    | iv. Fat       |
| v. Important |               |

**(OR)**

(b) Give the opposites for the following:

- |              |              |
|--------------|--------------|
| i. Satisfied | ii. Happy    |
| iii. White   | iv. Creation |
| v. Many      |              |

**PART - C** **1 x 8 = 8**

**III Answer the following choosing either (a) or (b)**

(a) Compare the animals Peacock, Crow, Swan, Parrot

Imagine that you are in a Zoo and you are talking about these animals with your friends. Build a conversation using the following words:

- |            |                 |
|------------|-----------------|
| i. Funny   | ii. Interesting |
| iii. Nice  | iv. Scary       |
| v. Popular | vi. Exciting    |

**(OR)**

(b) What do you think the solution for Deforestation?

\*\*\*\*\*

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VI SEMESTER, II INTERNAL TEST- APRIL-2022

III B.A English  
SHAKESPEARE

Date: 11/04/2022

Subject Code: SMEN61

Time: 1 hr

Marks: 20

PART - A

Choose the correct answer

2 x 1 = 2

1. Shakespeare wrote \_\_\_\_\_ sonnets.

- (a) 152 (b) 154  
(c) 156 (d) 158

2. Who is the heroine of the play *Othello*?

- (a) Rosalind (b) Desdemona  
(c) Olivia (d) Portia

PART - B

Choose any two question from the following:

2 x 5 = 10

3. Critically comment the Sonnet – "When in disgrace with fortune and men's eyes".  
4. Sketch the character of Othello.  
5. Give a character Sketch of Desdemona.

PART - C

Answer the following choosing either (a) or (b)

1 x 8 = 8

6. (a) Elucidate Shakespeare Stage and Audience in detail.

OR

(b) Discuss *Othello* as a typical Shakespearean tragedy.

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VI SEMESTER, II INTERNAL TEST- APRIL-2022

III B.A- English

SOUTH ASIAN LITERATURE IN ENGLISH

Date: 13/04/2022

Time: 1 hr

Subject Code: SMEN62

Marks: 20

PART - A

I Choose the correct answer 2 x 1 = 2

1. The poem, 'Minority' is taken from the anthology, \_\_\_\_\_.

- (a) *Purdah*
- (b) *Postcards from God*
- (c) *The Terrorist at my Table*
- (d) *Leaving Fingerprints*

2. Who betrayed Brati in the play, *Mother of 1084*?

- (a) Somu
- (b) Partha
- (c) Anindhya
- (d) Laltu

PART - B

II Answer all the questions choosing either (a) or (b) 2 x 5 = 10

1. (a) Write a note on the culinary metaphors employed in the poem, 'Minority'.

(OR)

(b) Comment on the plight of the narrator in the story, 'Silent Noise'.

2. (a) Give an account of Laila's childhood and her relationship with Tariq.

(OR)

(b) Discuss the bond between Sujata and Brati.

PART - C

III Answer the following choosing either (a) or (b) 1 x 8 = 8

3. (a) Explain how the poet exposes the hypocrisy of the critics of English language in the poem, 'This Language, This Woman'.

(OR)

(b) Analyse the themes of betrayal, hypocrisy, and violence in the play, *Mother of 1084*.

\*\*\*\*\*

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VI SEMESTER, II INTERNAL TEST- APRIL-2022

III B.A- English

**SHORT STORIES & ONE-ACT PLAYS**

Date: 16/04/2022

Subject Code: SMEN63

Time: 1 hr

Marks: 20

**PART - A**

I Choose the correct answer

2 x 1 = 2

1. What does Aksionov's wife dream about?

- (a) Aksionov being arrested
- (b) Aksionov leaving her for another woman
- (c) Aksionov being robbed
- (d) Aksionov returning with grey hair

2. Name the mountain through which the narrator and his companion drove through.

- (a) Himalayas
- (b) Alps
- (c) Mount Everest
- (d) Mount Fuji

**PART - B**

2 x 5 = 10

II Answer all the questions choosing either (a) or (b)

3. (a) Describe Ivan's life in prison.

(OR)

(b) Sketch the character of Uncle Podger.

4. (a) What does the narrator learn about the boys at the hospital?

(OR)

(b) Comment on the significance of the title *The Swan Song*.

PART - C

1 x 8 = 8

III Answer the following choosing either (a) or (b)


5.(a) How does Tolstoy convey his philosophy of truth and non-violence through his story?

(OR)


6.(b) What were the various odd jobs the boys undertook to earn money? What was the reason for them taking up the jobs?

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VI SEMESTER, II INTERNAL TEST- APRIL-2022

III B.A- English

REGIONAL LITERATURE IN TRANSLATION

Date: 16/04/2022

Time: 1 hr

Subject Code: SMEN64

Marks: 20

**PART - A**

I Choose the correct answer

2 x 1 = 2

1. Sundara Ramaswamy's *Tamarind History* has been translated in English by \_\_\_\_\_  
(a) David Wood  
(b) Black Wentworth  
(c) Damodara Asan  
(d) Abdul Khader
2. Venkata's philosophy can cope with the consequences of the \_\_\_\_\_  
(a) tradition  
(b) antique  
(c) futurity  
(d) modernity

**PART - B** 2 x 5 = 10

II Answer all the questions choosing either (a) or (b)

- 3.(a) Bring out the central idea of the poem *Charge Sheet*.  
(OR)  
(b) Explain the survival of Nature in *Tamarind History*.
- 4.(a) Enumerate the ideas of Bharati on *There is no fear*.  
(OR)  
(b) How is the narrator reminiscing about Damodara Asan's Love for the trees?

**PART - C**

1 x 8 = 8

III Answer the following choosing either (a) or (b)

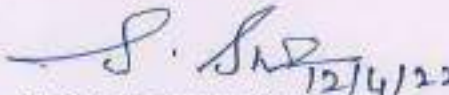
3. (a) Describe in detail the Social and Economic conflicts in the novel *Tamarind History*.

(OR)

- (b) Discuss *Tamarind History* as a Eco-critical novel.

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VI SEMESTER, II INTERNAL TEST- APRIL-2022

III B.A - English  
AFRICAN LITERATURE

Date: 19/04/2022

Subject Code: SEEN6A

Time: 1 hr

Marks: 20

PART - A

I Choose the correct answer

2 x 1 = 2

1. Moulded hands are crowning the \_\_\_\_\_.  
(a) moon  
(b) sky  
(c) mountain  
(d) sea
2. The play *The Lion and the Jewel* was published in the year \_\_\_\_\_.  
(a) 1964  
(b) 1962  
(c) 1945  
(d) 1956

PART - B

II Answer all the questions choosing either (a) or (b) 2 x 5 = 10

3. (a) Sketch the character of Sidi.  
(OR)  
(b) Comment on the plot of the play *The Lion and the Jewel* by Wole Soyinka.
4. (a) How does Rabearivelo make an obvious and sympathetic defender of lepers?  
(OR)  
(b) Write short notes on the horror of war brought out by J.P.Clark

PART - C

III Answer the following choosing either (a) or (b) 1 x 8 = 8

5. (a) Summarize the story with special emphasize to trick, cheating and cleverness of animals.

(OR)

- (b) Justify the title of the play *The Lion and the Jewel*.

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VI SEMESTER, II INTERNAL TEST- APRIL-2022

III B.A - English

WRITING FOR THE MEDIA

Date: 20/04/2022

Subject Code: SEEN6B

Time: 1 hr

Marks: 20

PART - A

I Choose the correct answer

2 x 1 = 2

1. The \_\_\_\_\_ is the central message of the plot.  
(a) character  
(b) theme  
(c) dialogue  
(d) plot
2. \_\_\_\_\_ is the soul of creative writing.  
(a) editorials  
(b) script-writing  
(c) play-writing  
(d) advertisement

PART - B

II Answer all the questions choosing either (a) or (b) 2 x 5 = 10

3. (a) Elucidate the three methods used by editorial writers.  
(OR)  
(b) Draft a note on any two types of Interviewing.
4. (a) Explain briefly about the dramatic structure in Scriptwriting.  
(OR)  
(b) Write a short note on camera shots and camera movements.

PART - C

III Answer the following choosing either (a) or (b)

1 x 8 = 8

5. (a) Write an essay on 'the structure of Playwriting' in detail.

(OR)

(b) How to be a Freelance Writer? Explain.

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**II SEMESTER, III INTERNAL TEST- MAY-2022**

**I B.A English**

**VALUE BASED EDUCATION**

**Date: 11/05/2022**

**Subject Code: CVBE21**

**Time: 1 hr**

**Marks: 20**

**PART – A**

**I Choose the correct answer**

**2 x 1 = 2**

1. A----- is a problem for non-smokers

- (a) Drug
- (b) Alcohol
- (c) poverty
- (d) smoker

2. The states of India are divided on the basis of-----

- (a) Literature
- (b) Architecture
- (c) Language
- (d) Heritage

**PART – B**

**II Answer all the questions choosing either (a) or (b) 2 x 5 = 10**

3. (a) What are the causes of childhood deaths?

**(OR)**

(b) What are the problems of Alcoholism?

4. (a) How does one get drug addicted?

**(OR)**

(b) Examine the role of Mahatma Gandhi in promoting communal Harmony.

**PART – C**

**III Answer the following choosing either (a) or (b) 1 x 8 = 8**

5. (a) Analyse the features of globalization

**(OR)**

(b) Discuss the concepts on types of Child Abuse.

\*\*\*\*\*

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Melapalayam, Tirunelveli

II SEMESTER, III INTERNAL TEST- MAY-2022

I B.A English

PROFESSIONAL ENGLISH FOR ARTS AND SCIENCES II

Date: 12/05/2022

Time: 1 hr

Subject Code: CPSS21

Marks: 20

## PART – A

I Answer the following questions

2 x 1 = 2

1. A circular is an ----- communication.

- (a) official
- (b) informal
- (c) secret
- (d) personal

2. A mock interview is -----

- (a) A real interview
- (b) a simulation of a real interview
- (c) preparatory activity
- (d) final interview

## PART – B

II Answer all the questions choosing either (a) or (b) 2 x 5 = 10

3. (a) Explain the difference between creativity and imagination.

(OR)

(b) List down the synonyms

- |                 |                |
|-----------------|----------------|
| 1. Hierarchical | 2. Stimulus    |
| 3. Contagious   | 4. Accelerate  |
| 5. Diffusion    | 6. Relocation  |
| 7. Hearths      | 8. Convergence |
| 9. Divergence   | 10. Indigenous |

4. (a) Prepare a short creative script of your own.

(OR)

(b) Create a Vlog capturing events that happen in 'one day /hour in your life'.

## PART – C

III Answer the following choosing either (a) or (b) 1 x 8 = 8

5. (a) How is MS office applied by sociologist at workplace?

(OR)

(b) Write an essay on the causes and effects of stress on the body.

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**II SEMESTER, III INTERNAL TEST- MAY-2022**

**I B.A English**  
**BRITISH DRAMA**

**Date: 13/05/2022**  
**Subject Code:CMEN21**

**Time: 1 hr**  
**Marks: 20**

**PART - A**

**I Choose the correct answer**

**2 x 1 = 2**

1. In which year T. S. Eliot received the Nobel Prize for Literature.

- (a) 1947
- (b) 1948
- (c) 1949
- (d) 1950

2. In which season does the play *Saint Joan* Began -----

- (a) Summer
- (b) Winter
- (c) Spring
- (d) Autumn

**PART - B**

**II Answer all the questions choosing either (a) or (b) 2 x 5 = 10**

3. (a) Write a short note on Sir Thomas Becket.

**(OR)**

(b) Write about the daughters of Lord Loam in the play *Admirable Crichton*.

4. (a) Why does Robert give in to Joan's demand at the start of the play *Saint Joan*.

**(OR)**

(b) Explain the symbol in the first scene of George Bernard Shaw's play *Saint Joans*.

**PART - C**

**III Answer the following choosing either (a) or (b) 1 x 8 = 8**


5. (a) Justify the play *Admirable Crichton* is a social play.


**(OR)**

(b) List out the themes of the play *Saint Joan* by George Bernard Shaw.

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**II SEMESTER, III INTERNAL TEST- MAY-2022**

**I B.A ENGLISH**

**HISTORY OF ENGLISH LITERATURE**

Date: 14/05/2022

Subject Code: CMEN22

Time: 1 hr

Marks: 20

**PART - A**

I Choose the correct answer

2 x 1 = 2

1. Who is the "Poet's Poet"?

- (a) Sidney
- (b) Shakespeare
- (c) Spenser
- (d) Southey

2. The name Metaphysical Poets is given by \_\_\_\_\_

- (a) Dr. Johnson
- (b) Ben Jonson
- (c) Donne
- (d) George Herbert

**PART - B**

II Choose any two questions from the following: 2 x 5 = 10

3. (a) What are the general characteristics of Elizabethan literature?

(OR)

(b) Write briefly on University Wits.

4. (a) How did religion and politics affect Puritan literature?

(OR)

(b) Write a note on the life and works of John Milton.

**PART - C**

III Answer the following choosing either (a) or (b) 1 x 8 = 8

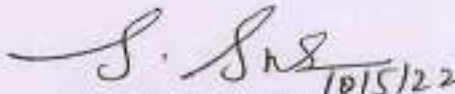
5. (a) What historical conditions helped to account for the great literature of the Elizabethan Age.

(OR)

(b) What is meant by the Puritan Period? What were the objects and the results of the Puritan movement in English History?

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IV SEMESTER, III INTERNAL TEST- MAY-2022

II B.A English

HISTORY OF ENGLISH LITERATURE - II

Date: 11/05/2022

Time: 1 hr

Subject Code: AMEN41

Marks: 20

PART - A

I Choose the correct answer

2 x 1 = 2

1. Which Writer can be described as writing historical novels?

- (a) Jane Austen
- (b) Tennyson
- (c) Browning
- (d) Sir Walter Scott

2. Balder Dead was written by-----

- (a) Matthew Arnold
- (b) Elizabeth Barrett Browning
- (c) Rossetti
- (d) Arthur Hugh Clough

PART - B

II Answer any two questions from the following: 2 x 5 = 10

3. (a) Write short notes on the Women novelists of the Romantic Age.

(OR)

(b) Write short notes on the four periodicals of the 19th century

4. (a) Analyse the merits and demerits of Lord Alfred Tennyson

(OR)

(b) Give a Brief notes on the other poets of the Victorian Age

PART - C

III Answer the following choosing either (a) or (b) 1 x 8 = 8

5. (a) Discuss the chief characteristics of Scott as a Novelist.

(OR)

(b) Write an essay on the achievement and greatness of Robert Browning as a poet.

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II SEMESTER, III INTERNAL TEST- MAY-2022

I B.A English

MODERN ENGLISH GRAMMAR & USAGE

Date: 16/05/2022

Time: 1 hr

Subject Code: CAEN21

Marks: 20

PART - A

Choose the correct answer

2 x 1 = 2

1. Clause is a group of words which has -----

- (a) a subject
- (b) a predicate
- (c) a phrase
- (d) both (a) and (b)

2. A sentence which consists of two or more Co-ordinate clauses is called -----

- (a) Simple Sentence
- (b) Complex Sentence
- (c) Compound Sentence
- (d) Compound-Complex Sentence

PART - B

II Answer all the questions choosing either (a) or (b) 2 x 5 = 10

3.(a) Change the voices:

- i. You are requested to keep off the grass.
- ii. Call the police.
- iii. He kicked the ball on the playground.
- iv. A letter was being written by me yesterday.
- v. The play was being staged.

(OR)

(b) Rewrite as directed:

- i. He is too noble to harbour ill feelings. (using *so...that*)
- ii. As soon as the speech started, the demonstrators rushed to the platform. (using *scarcely had...when*)
- iii. No sooner did I enter the room than the intruder ran away. (using *as soon as*)
- iv. As soon as the plane landed, there was a loud explosion. (using *No sooner did...than*)
- v. The old man was so tired that he could not walk. (using *too...to*)

4.(a) Do as directed:

- i. No other place in India is considered so sacred as Varanashi. (Change into other two degrees of comparison)
- ii. He is not so generous as his brother. (Give the other degree of comparison)
- iii. If you \_\_\_\_\_ been there, you would have done just what we did. (Use the correct form of 'be, have, do' as auxiliaries)
- iv. I promised him a reward. (Pick out the Direct & Indirect objects)
- v. She \_\_\_\_\_ playing the piano when I entered the room.

(OR)

(b) Do as directed.

- i. Will you, please, allow me to use your phone? (into *imperative sentence*)
- ii. How hot it is today! (into *Assertive Sentence*)
- iii. Who does not know that two and two makes four? (into *Assertive Sentence*)
- iv. Carry out these orders. (into *Interrogative sentence*)
- v. It was an extremely delightful party. (into *Exclamatory sentence*)



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**IV SEMESTER, III INTERNAL TEST- MAY -2022**

**II B.A English**  
**BRITISH DRAMA**

**Date: 12/05/2022**  
**Subject Code: AMEN42**

**Time: 1 hr**  
**Marks: 20**

**PART - A**

**Choose the correct answer**

**2 x 1 = 2**

1. Doctor Faustus was probably written in the year -----

- (a) 1588 - 89
- (b) 1580 - 81
- (c) 1589 - 90
- (d) 1590 - 91

2. Who is Lucifer?

- (a) The prince of hell
- (b) The prince of heaven
- (c) The prince of earth
- (d) None of these

**PART - B**

**Choose any two questions from the following: 2 x 5 = 10**

3. (a) How does Faustus fall victim of Mephistopheles?

**(OR)**

(b) Write a note on the symbolic importance of the character of Mephistopheles

4. (a) Write a note on the seven deadly sins in the play Dr. Faustus.

**(OR)**

(b) Explain the role of the good angels and evil angels in the play Dr. Faustus.

**PART - C**

**Answer the following choosing either (a) or (b) 1 x 8 = 8**


5. (a) Over ambitious Faustus is the cause of this tragedy. Discuss.

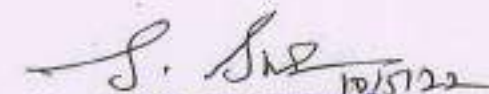
**(OR)**

(b) Attempt an essay on Dr. Faustus is a great dramatic poem.

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**IV SEMESTER, III INTERNAL TEST- MAY-2022**

**II B.A English**

**CHICANO & CARIBBEAN LITERATURE**

**Date: 13/05/2022**

**Subject Code: AAEN41**

**Time: 1 hr**

**Marks: 20**

**PART – A**

**I Choose the correct answer**

**2 x 1 = 2**

1. 'I am offering this poem' is a -----poem.

- (a) Epic
- (b) Eulogy
- (c) Ballad
- (d) Ode

2. What pet did Ultima bring with her?

- (a) black cat
- (b) pet coyote
- (c) pet owl
- (d) trained bat

**PART – B**

**Answer all the questions choosing either (a) or (b) 2 x 5 = 10**

3. (a) What do you notice about the poet's survival theme and the way he focuses on physical and emotional needs

**(OR)**

(b) What does the last stanza suggest about the meaning of life?

4. (a) Write the character sketch of Antonio.

**(OR)**

(b) Explain Antonio's dream

**PART – C**

**Answer the following choosing either (a) or (b) 1 x 8 = 8**

5. (a) Write the critical appreciation of the poem 'I am offering this poem'.

**(OR)**

(b) Identify the different manifestations of cultural conflict in this novel and explain how they interrupt on Antonio's life.

**\*\*\*\*\***

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# Annai Hajira Women's College

Melapalayam, Tirumelveli - 05

Department of Mathematics

IV SEMESTER, III INTERNAL TEST - MAY - 2022

II B. A - ENGLISH

MATHEMATICS FOR COMPETITIVE EXAMINATION II

Max. Mark: 20

Subject Code: ANMA41

Max. Hour: 1 hour

Date: 10.05.2022

PART - A

(2 X 1 = 2 marks)

## I. Choose the correct answer

1. If A is thrice as good a workman as B then ratio of times taken by A and B to finish a work is .....

- a) 1:3
- b) 2:1
- b) 3:1
- d) None

2. A and B together can complete a piece of work in 4 days. If A alone can complete the same work in 12 days, in how many days can B alone complete that work?

- a) 2
- b) 3.
- b) 6
- d) None

PART - B (2X5 = 10 marks)

## II. Answer all the questions, choosing either (a) or (b)

3. (a) A can do a piece of work in 7 days of 9 hours each and B can do it in 6 days of 7 hours each. How long will they take to do it, working together  $8\frac{2}{5}$  hours a day.

(OR)

b) A can do a piece of work in 80 days. He works at it for 10 days and then B alone finishes the remaining work in 42 days. In how much time will A and B working together finish the work?

4. (a) A and B undertake to do a piece of work for Rs.600. A alone can do it 6 days while B alone can do it in 8 days. With the help of C, they finish it in 3 days. Find the share of each.

(OR)

(b) A and B working separately can do a piece of work in 9 and 12 days respectively. If they work for a day alternately, A beginning in how many days the work will be completed?

PART - C

(1 X 8 = 8 marks)

## III. Answer the questions, choosing either (a) or (b)

5. (a) A and B can do a piece of work in 18 days; B and C can do it in 24 days; A and C can do it in 36 days. In how many days will A, B and C finish it, working together and separately?

(OR)

(b) 2 men and 3 boys can do a piece of work in 10 days while 3 men and 2 boys can do the same work in 8 days. In how many days can 2 men and 1 boy do the work?

\*\*\*\*\*

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# Annai Hajira Women's College

Melapalayam, Tirumelveli

IV SEMESTER, III INTERNAL TEST- MAY-2022

II B.A English  
ECO-ENGLISH

Date: 17/05/2022  
Subject Code: ASEN4A

Time: 1 hr  
Marks: 20

### PART - A

I Choose the correct answer

2 x 1 = 2

1. Name the young one: A baby pig is called a -----

- (a) piglet
- (b) puppy
- (c) kitten
- (d) bitch

2. A device that is used to catch an animal -----

- (a) mousetrap
- (b) trap
- (c) tripwire
- (d) snare

### PART - B

Answer all the questions choosing either (a) or (b) 2 x 5 = 10

3. (a) Imagine that all the dead animals come back alive and take man to the International Court, seeking justice, the trial of Man has also a defense lawyer and the animals have a team, Write the proceedings of the trial in the form of court arguments.

(OR)

(b) All the animals gather together and start preparing posters for a Campaign against Man. Help them to prepare the posters- Minimum ten posters.

4. (a) Imagine that the trees start talking. Can you compose a short poem on what they would say to the human beings?

(OR)

(b) Write a report about how fake astrologers cheat people with their so-called Predictions.

### PART - C

III Answer the following choosing either (a) or (b) 1 x 8 = 8

1. (a) Write a humorous dialogue between God and a Politician about their views on Corruption and Black Money.

(OR)

(b) Imagine that the earth is dead and all the other planets attend the funeral. You are one of the planets and you are supposed to give a speech at the place. Write down the speech.

\*\*\*\*\*

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**VI SEMESTER, III INTERNAL TEST- MAY-2022**

**III BA - ENGLISH**  
**SHAKESPEARE**

**Date: 11/05/2022**

**Subject Code: SMEN61**

**Time: 1 hr**

**Marks: 20**

**PART - A**

**I Choose the correct answer**

**2 x 1 = 2**

1. The opening scene in Julius Caesar takes place in the streets of -----

- (a) Athens
- (b) Rome
- (c) Greece
- (d) Egypt

2. ----- induces Casca to join the conspiracy against Caesar

- (a) Cassius
- (b) Cinna
- (c) Brutus
- (d) Antony

**PART - B**

**II Choose any two questions from the following: 2 x 5 = 10**

3. (a) How did Cassius changed Brutus' mind?

**(OR)**

(b) Write briefly on Julius Caesar as a play of revenge.

4. (a) Sketch the character of Brutus.

**(OR)**

(b) Sketch the character of Mark Antony.

**PART - C**

**Answer the following choosing either (a) or (b)**

**1 x 8 = 8**

5. (a) Comment on the theme of the play Julius Caesar.

**(OR)**

(b) Discuss the power of deception and the manipulation in Julius Caesar.

\*\*\*\*\*

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Melapalayam, Tirunelveli-5

**VI SEMESTER, III INTERNAL TEST- MAY-2022**

**III B.A English**

**SOUTH ASIAN LITERATURE IN ENGLISH**

Date: 12/05/2022

Time: 1 hr

Subject Code: SMEN62

Marks: 20

**PART - A**

**I Choose the correct answer**

**2 x 1 = 2**

1. The story, 'The Sins of the Mother' deals with the issues of-----  
tribal community.  
(a) Siahpad  
(b) Wazir  
(c) Mahsud  
(d) Kharot
2. Who informs Laila about Tariq's death?  
(a) Mariam  
(b) Abdul Sharif  
(c) Rasheed  
(d) Police

**PART - B**

**II Answer all the questions choosing either (a) or (b) 2 x 5 = 10**

3. (a) Compare and contrast the two houses and their metaphorical meaning in the poem, 'So What If I Live in a House made by Idiots'.  
**(OR)**  
(b) Comment on the theme of honour killing in the story, 'The Sins of the Mother'

4. (a) Write about Sujata's awakening of social consciousness in the drama, *Mother of 1084*.

**(OR)**

- (b) Sketch the character of Rasheed.

**PART - C**

**III Answer the following choosing either (a) or (b) 1 x 8 = 8**

5. (a) Analyze the themes of widowhood and marginalization of women in the story, 'The Remains of the Feast'.

**(OR)**

- (b) How does the novel, *A Thousand Splendid Suns* advocate the concept of Sisterhood through the characters of Mariam and Laila?

\*\*\*\*\*

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**VI SEMESTER, III INTERNAL TEST- MAY-2022**

**III B.A English**

**SHORT STORIES & ONE-ACT PLAYS**

**Date: 13/05/2022**

**Subject Code: SMEN63**

**Time: 1 hr**

**Marks: 20**

**PART - A**

**I Choose the correct answer**

**2 x 1 = 2**

1. In the selfish giant's garden there was always -----

- (a) Summaer
- (b) Spring
- (c) Autumn
- (d) Winter

2. The rising of the moon is symbolic of -----

- (a) Irish literary movement
- (b) love and betrayal
- (c) British uprising against the Irish
- (d) Irish uprising against the British

**PART - B**

**II Answer all the questions choosing either (a) or (b) 2 x 5 = 10**

3. (a) Compare the garden before and after the giant put up the sign.

**(OR)**

(b) What is the conflict between Paul and Ellen? How is it resolved?

4. (a) Discuss the significance of the ballads in the play *The Rising of the Moon*.

**(OR)**

(b) Compare and contrast Kalekezi and Kazungu

**PART - C**

**III Answer the following choosing either (a) or (b) 1 x 8 = 8**

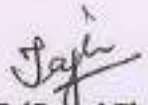
5. (a) Discuss the play *The Trick* as an allegory about the colonization of Africa.

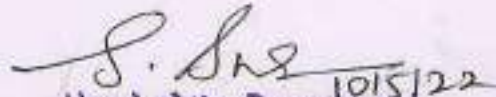
**(OR)**

(b) What is the dilemma faced by the Sergeant in the play?

\*\*\*\*\*

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**VI SEMESTER, III INTERNAL TEST- MAY-2022**

**III B.A English**

**REGIONAL LITERATURE IN TRANSLATION**

**Date: 19/05/2022**

**Subject Code: SMEN64**

**Time: 1 hr**

**Marks: 20**

**PART - A**

**I Choose the correct answer**

**2 x 1 =**

1. Venkata's Philosophy can cope with the consequences of the ---

- (a) tradition
- (b) antique
- (c) futurity
- (d) modernity

2. Basheer himself had spent time in a prison at -----

- (a) Madras
- (b) Kottayam
- (c) Kollam
- (d) Bangalore

**PART - B**

**II Choose any two questions from the following:**

**2 x 5 = 10**

3.(a) Write a general view of the poem Self Realization by Aadhavan Dheetchanya

**(OR)**

(b) Why does the author decide to visit Venkata's house?

4.(a) Why does Venkata look at a Sun's horse?

**(OR)**

(b) How does Basheer hear a Woman's voice?

**PART - C**

**III Answer the following choosing either (a) or (b) 1 x 8 = 8**


5.(a) Attempt an essay on Basheer's first reaction after getting the release order.

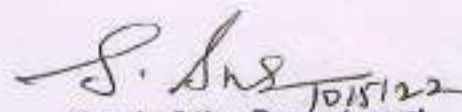
**OR**

(b) Narrate the story 'Walls' by Vaikom Muhammed Basheer in your own words.

\*\*\*\*\*

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**VI SEMESTER, III INTERNAL TEST- MAY-2022**

**III B.A English**

**AFRICAN LITERATURE**

Date: 16/05/2022

Time: 1 hr

Subject Code: SEEN6A

Marks: 20

**PART - A**

**I Choose the correct answer**

**2 x 1 = 2**

1. Hector was suffering from -----

- (a) headache
- (b) malaria
- (c) diarrhea and vomiting
- (d) pneumonia

2. The play *Arrow of God* was published in the year -----

- (a) 1964
- (b) 1924
- (c) 1954
- (d) 1965

**PART - B**

**II Answer all the questions choosing either (a) or (b)**

**2 x 5 = 10**

3. (a) Sketch the character of Ezeulu.

**(OR)**

(b) What is the significance of the title *Arrow of God*?

4. (a) Sketch the character of Ferdinand.

**(OR)**

(b) Why does Carmen lose all her children?

**PART - C**

**III Answer the following choosing either (a) or (b) 1 x 8 = 8**

5. (a) Bring out the themes of the novel *Arrow of God*.

**(OR)**

(b) How does the story "The Advance" describe the women's world?

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**VI SEMESTER, III INTERNAL TEST- MAY-2022**

**III B.A English**  
**WRITING FOR THE MEDIA**

Date: 17/05/2022

Subject Code: SEEN6B

Time: 1 hr

Marks: 20

**PART - A**

**I Choose the correct answer**

**2 x 1 = 2**

1. ----- is the key to copy writing.

- (a) note
- (b) news
- (c) word play
- (d) reading

2. ----- is a story of people.

- (a) chat
- (b) novel
- (c) imagination
- (d) innovation

**PART - B**

**II Answer all the questions choosing either (a) or (b) 2 x 5 = 10**

3. (a) What is the novel all about?

**(OR)**

(b) Write a note on the components of a best seller.

4. (a) Explain briefly about the job skills and requirements of a copy writer.

**(OR)**

(b) Explain the tips for effective copywriting.

**PART - C**

**III Answer the following choosing either (a) or (b) 1 x 8 = 8**

5. (a) Explain the characteristics of brilliant copy writing.

**(OR)**

(b) How to write a novel effectively? Explain

\*\*\*\*\*

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# Annai Hajira Women's College

Melapalayam, Tirunelveli

II SEMESTER, I INTERNAL TEST- MARCH-2022

I B.A – ENGLISH

## HISTORY OF ENGLISH LITERATURE

Date: 19/03/2022

Subject Code: CMEN22

Time: 1 hr

Marks: 20

### PART – A

I Choose the correct answer

2 x 1 = 2

1. The first English poem or heroic poetry of the Anglo-Saxon Period was \_\_\_\_\_  
(a) Beowulf  
(b) Complaint of Deer  
(c) The Plowman
2. When were the Angles and Saxons first landed in England?  
(a) Middle of the fourth century  
(b) Middle of the fifth century  
(c) Middle of the sixth century

### PART – B

II Answer all the questions choosing either (a) or (b) 2 x 5 = 10

3. (a) Write briefly on the social system of Anglo-Saxon England.

(OR)

- (b) Write a note on the features of Norman government

4. (a) Compare and contrast Beowulf and Grendel.

(OR)

- (b) What is the importance of Anglo-Saxon Literature?

### PART – C

Answer the following choosing either (a) or (b) 1 x 8 = 8

5. (a) Attempt an essay on the Anglo-Saxon period in English Literature.

(OR)

- (b) Write in detail the main events of the Norman Conquest.

\*\*\*\*\*

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**II SEMESTER, I INTERNAL TEST- MARCH-2022**

**I B.A – ENGLISH**

**MODERN ENGLISH GRAMMAR & USAGE**

Date: 21/03/2022

Time: 1 hr

Subject Code: CAEN21

Marks: 20

**PART – A**

Choose the correct answer

2 x 1 = 2

- Choose the correct predicate for the following sentence  
Millions of people \_\_\_\_\_  
(a) ran a race (b) perished in the war  
(c) be with you (d) is a good hobby
- The Part of Speech of 'fortune' in 'Man is the architect of his own fortune' is \_\_\_\_\_  
(a) Noun (b) Pronoun  
(c) Adjective (d) Adverb

**PART – B**

Answer all the questions choosing either (a) or (b)

2 x 5 = 10

- (a) Name the Part of Speech of each underlined word in the following sentences:  
i. He will return next week.  
ii. Man is the architect of his own fortune.  
iii. Where there is a will there is a way.  
iv. He spoke very well.  
v. Bravo! The wise king ruled for twenty years.

(OR)

(b) Pick out the 'phrases' from the following sentences:

- Up in the sky they saw a new star.
- A thing of beauty is a joy forever.
- The old woman sat in a corner.
- The birds flew around the sky.
- A stitch in time saves nine.

4. (a) Fill in as directed:

- I have lost my \_\_\_\_\_ of keys. (collective noun)
- Don't disturb that \_\_\_\_\_ of bees. (collective noun)
- He married an \_\_\_\_\_. (heir) [feminine form]
- The \_\_\_\_\_ welcomed the guests. (host) [feminine form]
- People living in glass houses cannot afford to throw \_\_\_\_\_, (wood/stone/marble)

(OR)

(b) Correct the following sentences.

- The first innings are still going on.
- Measles are a dangerous disease.
- The thieves entered the bakery and took a dozen loafs.
- I bought two dozens mangoes.
- My trouser was torn when I got down from the tree.

**PART – C**

Answer the following choosing either (a) or (b)

1 x 8 = 8

5. (a) Explain the four types of sentences with examples.

(OR)

(b) Explain Parts of Speech with examples.

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Melapalayam, Tirunelveli-05

(A Unit of As-Sathiq Educational Society)

(Affiliated to Manonmaniam Sundaranar University)

## **DEPARTMENT OF MATHEMATICS**



**Annai Hajira Women's College**  
**Melapalayam, Tirunelveli - 05**

II B.Sc - MATHEMATICS

III SEMESTER, III INTERNAL TEST - NOVEMBER- 2021

Sequences and Series I

Max. Mark: 20

Subject Code: AMMA31

Max. Hour: 1 hour

Date: 17.11.2021

**PART -A**

(2 X 1=2 marks)

I. Choose the correct answer

1.  $1 - \frac{1}{2^2} + \frac{1}{3^2} - \frac{1}{4^2} + \dots$  is a \_\_\_\_\_ series

- a) convergent                      b) absolutely convergent  
 c) conditionally convergent      d) None

2.  $\lim_{n \rightarrow \infty} \left( \frac{2n+1}{2n} \right) =$

- a) 0                      b) 1                      c) 2                      d) -1

**PART -B**

(2 X 5=10 marks)

II. Answer the following

3) a) Test the convergence of the series  $\sum \frac{n^2+1}{5^n}$

(OR)

b) Discuss the convergence of the series  $\sum \frac{\sqrt{(n+1)} - \sqrt{n}}{n^p}$

4) a) Show that any absolutely convergent series is convergent

(OR)

b) State and Prove Dirichlet's test

**PART -C**

(1 X 8=8 marks)


III. Answer the following

5) a) Prove that the harmonic series  $\sum \frac{1}{n^p}$  converges if  $p > 1$  and diverges if  $p \leq 1$

(OR)

b) State and Prove Kummer's test

\*\*\*\*\*

  
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**II B.Sc - MATHEMATICS**

**III SEMESTER, III INTERNAL TEST – NOVEMBER- 2021**

**Statistics I**

**Max. Mark: 20**

**Subject Code: AAST11**

**Max. Hour: 1 hour**

**Date: 18.11.2021**

**PART -A**

**(2 X 1=2 marks)**

**I. Choose the correct answer**

1.  $F(-\infty) = \lim_{x \rightarrow -\infty} F(x) = \text{-----}$

- (a) 0
- (b) 1
- (c)  $F(b) - F(a)$
- (d) e

2. Find whether the following data are -----

$N=600, (A) = 300, (B)=400, (AB)=50$

- (a) Inconsistent
- (b) consistent
- (c) Associated
- (d) None of these

**PART -B (2X5 =10 marks)**

**II. Answer all the questions, choosing either (a) or (b)**

3. a) Find the limits of (BC) for the following available data.  $N = 125,$   
 $(A) = 48, (B) = 62, (C) = 45 (A\beta) = 7 \text{ and } A\gamma = 18$

**(OR)**

(b) Find (i) the constant k such that the function

$$f(x) = kx^2 \text{ if } 0 < x < 3$$

0 otherwise is a probability function

(i) Compute  $P(1 < X < 2)$

(ii) Find the distribution function

4. (a) Check whether the attributes A and B are independent given that  
 $(AB) = 256, (\alpha\beta) = 768, (A\beta) = 48, (\alpha\beta) = 144$

**(OR)**

(b) Write the properties of moment generating function.

**PART -C**

**(1 X 8=8 marks)**

**III. Answer the questions, choosing either (a) or (b)**

5. (a) Obtain the (i) mean (ii) median and (iii) mode for the following distribution

$$f(x) = \begin{cases} 6(x-x^2) & \text{if } 0 < x < 1 \\ 0 & \text{elsewhere} \end{cases}$$

**(OR)**

(b) In a class test in which 135 candidates were examined for proficiency in physics, chemistry, it was discovered that 75 students failed in physics, 90 failed in chemistry and 50 failed in both. Find the magnitude of the association and state if there is any association between failing in physics and chemistry.

\*\*\*\*\*

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**II B.Sc - MATHEMATICS**

**III SEMESTER ,III INTERNAL TEST – NOVEMBER- 2021**

**VECTOR CALCULUS**

Duration: 1 Hour

Subject code: ASMA31

Marks: 20

Date:19.11.2021

**PART –A**

**(2 X 1=2 marks)**

**I. Choose the correct answer**

1. Using stroke's theorem the value of  $\nabla \times \nabla \phi$  is -----

- (a) 0
- (b) 1
- (c) -1
- (d) None of the above

2. If C is the circle  $x^2 + y^2 = 1$  then  $\int_C (x - 2y)dx + xdy$  is \_\_\_\_

- (a)  $\pi$
- (b)  $2\pi$
- (c)  $3\pi$
- (d) None of the above

**PART –B**

**(2 X 5=10 marks)**

**II. Answer the following**

3. (a) Using Green's theorem, evaluate then  $\int_C (3x^2 - 8y^2)dx + (4y - 6xy)dy$  Where C is the boundary of the rectangular area enclosed by the lines  $x = 0, x = 1, y = 0, y = 2$

**(OR)**

(b) Evaluate  $\int_C xy^2 dy - x^2 y dx$  where C is the cardioids

$$r = a(1 + \cos \theta)$$

4. (a) Evaluate  $\iint_S \nabla \times \vec{A} ds$  if  $\vec{A} = x^2\vec{i} + y^2\vec{j} + z\vec{k}$  where S is the paraboloidal surface  $x^2 + y^2 = 1 - z$  where  $z \geq 0$

**(OR)**

(b)  $\iint_S \vec{A} \cdot ds$  if  $\vec{A} = 4xz\vec{i} - y^2\vec{j} + yz\vec{k}$  and S is the surface of the cube bounded by  $x = 0, x = 1, y = 0, y = 1, z = 0, z = 1$

**PART –C**

**(1 X 8=8 marks)**

**II. Answer the following**

5. (a). Verify Green's theorem, in the plane for the integral  $\int_C yx^2 dx + ydy$  where C is the curve enclosing the region R bounded by the line  $y = x$  and the parabola  $y^2 = x$

**(OR)**

(b) Verify stroke's theorem for  $\vec{A} = xy\vec{i} + yz\vec{j} + zx\vec{k}$  taken over the triangular surface s in the plane  $x + y + z = 1$  bounded by the planes  $x = 0, y = 0, z = 0$ .

\*\*\*\*\*

R. Pappathi  
 QPS

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# Annai Hajira Women's College

Melapalayam, Tirunelveli-5

III SEMESTER, III INTERNAL TEST- NOVEMBER-2021

II B.Sc Mathematics

ENGLISH FOR EMPLOYABILITY

Date: 20/11/2021

Subject Code: ANEN31

Time: 1 hr

Marks: 20

### PART - A

I Choose the correct answer

(2 x 1 = 2)

1. Interviews are conversations with -----

- (a) fun
- (b) purpose
- (c) friendliness
- (d) informality

2. Which of these must be avoided in a Group Discussion?

- (a) Speaking facts
- (b) Asking questions
- (c) Speaking fast
- (d) Speaking with clarity

### PART - B

II Answer all the questions choosing either (a) or (b)

2 x 5 = 10

3. (a) What do the interviewers look for in a candidate during the Job Interview?

(OR)

(b) Explain briefly about the collection of material about the companies during an interview.

4. a) Each sentence has four highlighted parts indicated by A, B, C and D. Study each sentence and identify which part of the sentence contains the error.

(i) The cricket captain with his team members and coach are

A B

returning from the South African tour tonight.

C D

(ii) In the past young boys enjoyed to play football but now they

A B C

play cricket.

D

(iii) It is a known fact that houses in the village are more cheaper than those in the city.

A B C

D

(iv) Columbus Day is celebrated on the twelve of October because it

A B

was on that day Columbus first landed in America.

C D

(v) The brand-new television is too expensive for we to buy now, as

A B C

we have to pay the income tax this month.

D

(OR)

(b) Spot the error & Correct the following sentences:

- i. He speak the English.
- ii. Though she is weak but she is active.
- iii. The manager with all the employees are present.
- iv. If I was a bird, I would fly.
- v. He goes to school by feet.

### PART - C

III Answer the following choosing either (a) or (b)

1 x 8 = 8

5. (a) Bring out some of the basic patterns of Communicative functions.

OR

(b) Prepare a sample interview between an interviewer and a candidate for the position of General in a reputed company.

\*\*\*\*\*

Mrs. M. TajBeevi Thangamma

QPS

HOD

15/11/21

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## Melapalayam, Tirunelveli - 05

V SEMESTER, III INTERNAL TEST- NOVEMBER 2021

III B.Sc., MATHEMATICS

ABSTRACT ALGEBRA II

Duration: 1 Hr.

Marks: 20

Subject code: SMMA51

Date: 15.11.2021

PART -A

(2 X 1=2 marks)

I. Choose the correct answer

1. If  $V$  is an Inner Product Space then  $V^\perp$  is

- a) 0    b)  $\{0\}$     c)  $V$     d)  $\phi$

2. If 3 is eigen value of  $\begin{pmatrix} k & 1 \\ 2 & 4 \end{pmatrix}$  then the value of  $k$  ?

- a) 3    b) 2    c) 5    d) 1

PART -B (2X5 =10 marks)

II. Answer all the questions, choosing either (a) or (b)

3.(a)Apply Gram Schmidt process to construct an orthonormal basis for  $V_3(\mathbb{R})$  with the standard inner product for the basis  $\{v_1, v_2, v_3\}$  where  $v_1=(1, 0, 1)$ ,  $v_2=(1, 3, 1)$  and  $v_3=(3, 2, 1)$

(OR)

(b)Show that a square matrix  $A$  is involutory iff  $A = A^{-1}$

4. (a) State and Prove Cayley Hamilton Theorem

(OR)

(b) Reduce the matrix  $A = \begin{pmatrix} 1 & 2 & -1 \\ 1 & 1 & 2 \\ 2 & 4 & -2 \end{pmatrix}$  to the canonical form

PART -C

(1 X 8=8 marks)

III. Answer the questions, choosing either (a) or (b)

5. (a)State and Prove Gram Schmidt Orthogonalisation Process

(OR)

(b) Using Cayley Hamilton Theorem find the inverse of the matrix

$$\begin{pmatrix} 7 & 2 & -2 \\ -6 & -1 & 2 \\ 6 & 2 & -1 \end{pmatrix}$$

\*\*\*\*\*

H. Anisha  
QPS

S. Anus  
HOD 15.11.21

Sajal Vath  
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V SEMESTER, III INTERNAL TEST- NOVEMBER 2021

III B.Sc., MATHEMATICS

Real Analysis II

Duration: 1 Hr.

Subject code: SMMA52

Marks: 20

Date: 23.11.2021

PART -A

(2 X 1=2 marks)

**I. Choose the correct answer**

1. Any Discrete Metric Space with more than one point is

- (a) Connected
- (b) Compact
- (c) Not Connected
- (d) Not Compact

2.  $\int_{-1}^1 |x| dx =$

- (a) 0
- (b) 1
- (c) 1
- (d) 1/2

PART -B

(2 X 5=10 marks)

**II. Answer the following**

3) a) Prove that a compact subset of a metric Space is closed

(OR)

a) If A and B are connected subsets of a metric space M and if  $A \cap B = \emptyset$ , prove that  $A \cup B$  is connected

4) (a) State and Prove the necessary and sufficient condition for the integrability of a bounded function

(OR)

(b) State and prove the first Fundamental Theorem on Integral Calculus

PART -C

(1 X 8=8 marks)

**III. Answer the following**

5) (a) State and Prove Heine Borel Theorem

(OR)

(b) Prove that a subspace of R is connected  $\Leftrightarrow$  it is an Interval

\*\*\*\*\*

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**V SEMESTER, III INTERNAL TEST- NOVEMBER 2021**  
**III B.Sc., MATHEMATICS**

**STATICS**

**Duration: 1 Hr.**  
**Marks: 20**

**Subject code: SMMA53**  
**Date: 17.11.2021**

**PART -A (2 X 1=2 marks)**

**I Choose the correct answer**

1. The depth of the lowest point of the catenary below the horizontal line of suspension of the string is called -----

- (a) span
- (b) sag
- (c) vertex
- (d) tension

2. If three coplanar forces acting on a rigid body keep it in equilibrium, they must be -----

- (a) Concurrent
- (b) Parallel
- (c) Concurrent or Parallel
- (d) None

**PART -B (2X5 =10 marks)**

**II. Answer all the questions, choosing either (a) or (b)**

3. (a) Show that the length of an endless chain which will hang over a circular pulley of radius  $a$  so as to be in contact with two-thirds of the circumference of the pulley is a  $\left(\frac{4\pi}{3} + \frac{3}{\log(2+\sqrt{3})}\right)$

**(OR)**

(b) Prove that if three forces acting on a rigid body are in equilibrium, they must be coplanar.

4. (a) A uniform chain of length  $l$  is to have its extremities fixed at two points in the same horizontal line. Show that the span must be  $\frac{l}{\sqrt{8}} \log(3 + \sqrt{8})$  in order that the tension at each support shall be three times that at the lowest point.

**(OR)**

(b) A beam of weight  $W$  hinged at one end is supported at the other end by a string so that the beam and the string are in a vertical plane and make the same angle  $\theta$  with the horizon. Show that the reaction at the hinge is  $\frac{W}{4} \sqrt{8 + \operatorname{cosec}^2 \theta}$

**PART -C**

**(1 X 8=8 marks)**

**III. Answer the questions choosing either (a) or (b)**

5. (a) A heavy uniform chain of length  $2l$  is suspended by its ends which are on the same horizontal level. The distance between the ends is  $2a$  and the sag is  $a$ . Show that  $\log\left(\frac{l+a}{l-a}\right) = \frac{2a^2}{l^2-a^2}$ .

**(OR)**

(b) State and prove any one of the trigonometric theorems.

\*\*\*\*\*

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V SEMESTER

III INTERNAL TEST- NOVEMBER 2021

III B.Sc., MATHEMATICS

Transforms and their Applications

Duration: 1 Hr.

Marks: 20

Subject code: SMMA54

Date: 18.11.2021

PART -A

(2 X 1=2 marks)

I. Choose the correct answer

1.  $Z(n) = ?$

a)  $\frac{z}{(z+1)^2}$

b)  $\frac{(z+1)^2}{z}$

c)  $\frac{z}{(z-1)^2}$

d)  $\frac{(z-1)^2}{z}$

2.  $Z^{-1}\left(\frac{1}{(z-a)^2}\right) =$

a)  $\frac{(k+1)a^{k+1}}{a}$

b)  $\frac{(k+1)a^{k-1}}{a}$

c)  $\frac{(k-1)a^{k-1}}{a}$

PART -B

(2 X 5=10 marks)

II. Answer the following

3) (a) Prove that  $Z(na^n) = \frac{az}{(z-a)^2}$

(OR)

(b) Find  $Z(n^2)$

4) (a) Find  $Z^{-1}\left(\frac{z^2}{(z+2)(z^2+4)}\right)$  by the method of Partial Fractions

(OR)

(b) Using Convolution theorem, find  $Z^{-1}\left(\frac{z^2}{(z+1)(z+2)}\right)$

PART -C

(1 X 8=8 marks)

III. Answer the following

5) (a) (i) Prove that  $Z(a^n f(n)) = F\left(\frac{z}{a}\right)$  where  $Z(f(n)) = F(z)$

(ii) Find  $Z(r^n \cos n\theta)$  and  $Z(r^n \sin n\theta)$

(OR)

(b) Find the Inverse Z transform of  $\frac{z^2}{z^2+4}$  using residue.

\*\*\*\*\*

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**V SEMESTER, III INTERNAL TEST- NOVEMBER 2021**

**III B.Sc., MATHEMATICS**  
**DISCRETE MATHEMATICS**

**Duration: 1 Hr.**

**Subject code: SEMA5B**

**Marks: 20**

**Date: 19.11.2021**

**PART -A**

**(2 X 1=2 marks)**

**I. Choose the correct answer**

1. Every element of Boolean Lattice has a-----

- (a) at least one complement
- (b) unique complement
- (c) exactly two complement
- (d) no complement

2. The next hexa decimal number of C5F3 \_\_\_\_\_.

- (a) C603
- (b) C5F4
- (c) C604
- (d) D504

**PART -B (2 X 5=10 marks)**

**II. Answer the following**

3) (a) (i) In a Boolean lattice, prove that the De-Morgan's laws.

(ii) In any Boolean Algebra, show that  $a=0$  iff  $ab'+a'b=b$

**(OR)**

(b) Show that the following Boolean expressions are equivalent to one another obtain their sum of product canonical form

- (i)  $(x \oplus y) * (x' \oplus z) * (y \oplus z)$
- (ii)  $(x * z) \oplus (x' * y) \oplus (y * z)$
- (iii)  $(x \oplus y) * (x' \oplus z)$
- (iv)  $(x * z) \oplus (x' * y)$

4) (a)(i) Convert decimal 23.6 to a binary number.

(ii) A digital computer processes binary numbers that are 32 bits long. If a 32-bit number has all 1s. What is its decimal equivalent?

**(OR)**

(b) What is the binary equivalent of decimal 363 using double dabble and Octal dabble methods

**PART -C**

**(1 X 8=8 marks)**

**III. Answer the following**

5) (a) Minimize the Boolean function  $f = x_1.(x_2 + x_3.\overline{x_4})$  using K-Map Quine McCluskey Method and cubic representation.

**(OR)**

(b)(i) Convert the hexa decimal numbers of the preceding example to their decimal equivalents.

(ii) Convert decimal 65,535 to its hexa decimal and binary equivalents.

\*\*\*\*\*

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V SEMESTER, III INTERNAL TEST - NOVEMBER 2021

III B.Sc., MATHEMATICS

PERSONALITY DEVELOPMENT

Duration: 1 Hr.

Subject code: SCSB5A

Marks: 20

Date: 22.11.2021

PART - A (2 X 1=2 marks)

I. Choose the correct answer

1. The word 'Communication' is derived from the Latin word -----

- (a) Communis
- b) Communes
- (c) Common
- (d) Commonis

2. Social grace at work place refers to the ----- of oneself.

- (a) common behavior
- (b) pleasing behavior
- (c) general behavior
- (d) normal behavior

PART - B (2 X 5=10 marks)

II. Answer the following

3) (a) Define Communication. Write down the process of communication.

(OR)

(b) Define stress management. Write the symptoms of stress?

4) (a) Define an interview. Write the types of skills required for the interview?

(OR)

b) Define Dress code. Write the dress code for selected occasions.

PART - C

(1 X 8=8 marks)

III. Answer the following

5) (a) Write the barriers in communication and how to overcome communication barriers.

(OR)

(b) Define Table Manners. Write the do's and don't's of table manners.

\*\*\*\*\*

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V SEMESTER, III – INTERNAL TEST – NOVEMBER 2021

III B. Sc., MATHEMATICS  
OPERATIONS RESEARCH I

Duration: 1 Hour

Subject code: SEMA5D

Marks: 20

Date: 20.11.2021

PART – A

(2 X 1=2 marks)

I. Choose the correct answer

1. A transportation problem is said to be a balanced transportation problem \_\_\_\_\_

- (a) Supply < demand
- (b) Supply = demand
- (c) Supply > demand
- (d) None of the above

2. Which of the following method is an assignment method \_\_\_\_\_

- (a) Hungarian
- (b) NWC rule
- (c) VAM
- (d) None of the above

PART – B

(2 X 5=10 marks)

II. Answer the following

3. (a) Determine an initial basic feasible solution to the following transportation problem using NWC rule

	D <sub>1</sub>	D <sub>2</sub>	D <sub>3</sub>	D <sub>4</sub>	Supply
S <sub>1</sub>	6	4	1	5	14
S <sub>2</sub>	8	9	2	7	16
S <sub>3</sub>	4	3	6	2	5
Demand	6	10	15	4	

(OR)

(b) Using VAM method find the initial basic feasible solution.

	D1	D2	D3	D4	SUPPLY
S1	21	16	25	13	11
S2	17	18	14	23	13
S3	32	27	18	41	19
DEMAND	6	10	12	15	

4. (a) Solve the assignment problem

	A	B	C	D
a	3	6	2	6
b	7	1	4	4
c	3	8	5	8
d	6	4	3	7
e	5	2	4	3
f	5	7	6	2

(OR)

(b) Solve the transportation problem.

	W1	W2	W3	capacity
F1	8	8	15	120
F2	15	10	17	80
F3	3	9	10	80
Requirement	150	80	50	280

**PART - C**

**(1 X 8=8 marks)**

**II. Answer the following**

5. (a) Hungarian algorithm for solving Assignment problem.

**(OR)**

(b) A travelling salesman has to visit 5 cities. He wishes to start from a particular city, visit each city once and return to his starting point cost of travelling from one city to another is shown in the table below. Find the least cost route.

	A	B	C	D	E
A	$\infty$	4	10	14	2
B	12	$\infty$	6	10	4
C	16	14	$\infty$	8	14
D	24	8	12	$\infty$	10
E	2	6	4	14	$\infty$

\*\*\*\*\*

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**Annai Hajira Women's College**

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Department of Mathematics

II SEMESTER, II INTERNAL TEST - APRIL- 2022

I B. Sc - MATHEMATICS

PROFESSIONAL ENGLISH FOR PHYSICAL SCIENCES II

Max. Mark: 20

Max. Hour: 1 hour

Subject Code: CPPS21

Date: 16.04.2022

**PART -A**

(2 X 1=2 marks)

I. Choose the correct answer

1. The theory of knowledge is -----

- (a) Epistemological
- (b) Ontological
- (c) Science
- (d) Omnipotent

2. Lavoisier considered that Oxygen was the -----principle.

- (a) Acidifying
- (b) Engraving
- (c) advocating
- (d) None

**PART -B**

(2 X 5 = 10 marks)

II. Answer all the questions, choosing either (a) or (b).

3. (a) Write about AI.

(OR)

(b) Fill in the blanks with appropriate words given below.

(Consecutive, series, tedious, pairs, summing)

In the 1780s provincial German schoolmaster gave his class the ----- assignment of ----- the first 100 integers. The teacher's aim was to keep the kids quiet for half an hour, but one young pupil almost immediately produced an answer:  $1+2+3...98+99+100=5,050$ . The smart aleck was Carl

Friedrich Gauss, who was not just a calculating prodigy who added up all those numbers in his head. He had a deeper insight: If you "fold" the ----- of numbers in the middle and add them in pairs -  $1+100, 2+99, 3+98$ , and so on --all the -----sum to 101. There are 50 such pairs, and so the grand total is simply  $50*101$ . The more general formula, for a list of ----- numbers from 1 through n, is  $\{n(n+1)\}/2$ .

4. (a) "Robots come in peace" Express your opinions in a paragraph of about 200 words

(OR)

b) Write advantages and disadvantages of fitness trackers.

**PART -C**

(1 X 8 = 8 marks)

III. Answer the questions, choosing either (a) or (b).


5. (a) Explain the father of modern chemistry,


(OR)

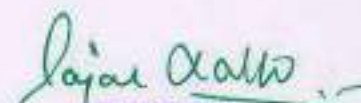
(b) Write an essay on Electronic Fitness Trackers

\*\*\*\*\*

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Department of Mathematics

II SEMESTER, II INTERNAL TEST - APRIL - 2022

I B. Sc - MATHEMATICS

**DIFFERENTIAL EQUATIONS & ANALYTICAL GEOMETRY OF THREE DIMENSIONS**

Max. Mark: 20

Max. Hour: 1 hour

Subject Code: CMMMA21

Date: 19.04.2022

**PART - A**

(2 X 1=2 marks)

I. Choose the correct answer

1. The shortest distance between the lines  $\frac{x-3}{-1} = \frac{y-4}{2} = \frac{z+2}{1}$  and

$\frac{x-1}{1} = \frac{y+7}{3} = \frac{z+2}{2}$  is \_\_\_\_\_.

- a)  $\sqrt{35}$                       b) 31  
c) 9                                d) None of the above

2. The equation of the line passing through (3, 2, -8) and perpendicular to  $-3x + y + 2z - 2 = 0$  is \_\_\_\_\_.

- a)  $\frac{x-3}{-1} = \frac{y-4}{2} = \frac{z+2}{1}$   
b)  $\frac{x-3}{-3} = \frac{y-2}{1} = \frac{z+8}{2}$   
c)  $\frac{x-2}{1} = \frac{y-4}{3} = \frac{z-3}{3}$   
d) None of the above

**PART - B**

(2X5 =10 marks)

II. Answer all the questions, choosing either (a) or (b)

3. (a) Solve  $x^2 = 1+p^2$ .

(OR)

(b) Solve  $\sin px \cos y = \cos px \sin y + p$ .

4. (a) Solve the equations  $\frac{dx}{dt} + 2x - 3y = t$ ,  $\frac{dy}{dt} - 3x + 2y = e^{2t}$ .

(OR)

(b) Find the image of a line  $\frac{x-1}{3} = \frac{y-3}{5} = \frac{z-4}{2}$  in the plane

$2x - y + z + 3 = 0$ .

**PART - C**

(1 X 8=8 marks)

III. Answer the questions, choosing either (a) or (b)

5. (a) Show that the lines  $\frac{x+1}{3} = \frac{y+3}{5} = \frac{z+5}{7}$  and  $\frac{x-2}{1} = \frac{y-4}{3} = \frac{z-3}{3}$  are coplanar. Find the point of intersection and the equation of the plane determined by them.

(OR)

(b) Find the equation of the orthogonal projection of the line  $\frac{x-4}{3} = \frac{y-2}{4} = \frac{z-1}{2}$  on the plane  $9x + 8y + 2z - 7 = 0$ .

\*\*\*\*\*

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H. dyha *[Signature]*  
OPS

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12.11.22  
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**Annai Hajira Women's College**

Melapalayam, Tirumelveli - 627 005

II Semester, II Internal Test – April 2022

I B.Sc Mathematics

Allied Physics-II

Sub code: SAPHZ1

Date: 20.04.2021

Total: 20 marks

Time: 1 hr

Part –A (2×1=2 marks)

(I) Choose the correct answer:

1. The direction of induced e.m.f is given by-----

- (a) Faraday's law
- (b) Lenz's law
- (c) Fleming's rule
- (d) Lorentz rule

2. Nuclear force is ----- force

- (a) short-range attractive
- (b) long-range attractive
- (c) short-range repulsive
- (d) electrostatic

Part B (2×5=10 marks)

II Answer all the questions, choosing either (a) or (b). Each answer should not exceed 250 words.

3. (a) State Faraday's law of electromagnetic induction.

(OR)

(b) Derive the relation connecting the three magnetic vectors B, H and M.

4. (a) Write down the characteristics of nuclear forces.

(OR)

(b) Explain mass defect and nuclear binding energy.

Part C

(1×8=8 marks)

III Answer the question, choosing either (a) or (b). Answer should not exceed 600 words.

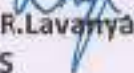
5(b) Write in detail about nuclear constituents' nuclear size, charge, mass, spin, nuclear magnetic moment.

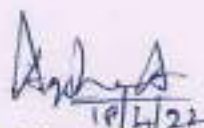
(OR)

(b) Write down the properties of dia, para and ferro magnetic materials, by giving two examples for each.

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# Annai Hajira Women's College

Melapalayam, Tirunelveli -05

## Department of Mathematics

IV SEMESTER, II INTERNAL TEST – APRIL- 2022

II B.Sc - MATHEMATICS

### ABSTRACT ALGEBRA

Max. Mark: 20

Subject Code: AMMA41

Max. Hour: 1 hour

Date: 10.04.2022

#### PART –A

(2 X 1=2 marks)

#### I. Choose the correct answer

1. The order of the element 3 in  $(\mathbb{Z}_9, \oplus)$  is \_\_\_\_\_

- a) 2
- b) 4
- c) 6
- d) 8

2. For the group  $(\mathbb{Z}_{12}, \oplus)$  the number of generators is

- a) 4
- b) 3
- c) 2
- d) none

#### PART –B

(2 X 5=10 marks)

#### II. Answer the following

3) a) Let G be a group and 'a' be an element of order n. Show that

$$a^m = e \text{ iff } n \text{ divides } m.$$

(OR)

b) Let G be a group and  $a, b \in G$ , Then Prove that order of  $a =$  order of

$$b^{-1}ab$$

4) a) Let A and B be two subgroups of a group G. Prove that AB is a subgroup of G iff  $AB = BA$

(OR)

b) If M and N are normal subgroups of a group G such that  $M \cap N = \{e\}$ . Prove that every element of M commutes with every element of N

#### PART –C

(1 X 8=8 marks)

#### III. Answer the following

5) a) State and Prove Cayley's theorem.

(OR)

b) State and Prove Lagrange's Theorem.

\*\*\*\*\*

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Annai Hajira Women's College

Melapalayam, Tirunelveli - 05

Department of Mathematics

IV SEMESTER, II INTERNAL TEST - APRIL - 2022

II B. Sc - MATHEMATICS

STATISTICS II

Max. Mark: 20

Subject Code: AAST21

Max. Hour: 1 hour

Date: 18.04.2022

PART -A

(2 X 1=2 marks)

I. Choose the correct answer

1. Which of the following is not an assumption in analysis of variance?

- (a) Normality
- (b) Homogeneity
- (c) Independence of error
- (d) None of these

2. The value of F is the variance ratio test -----

- (a)  $F = \frac{s_1^2}{s_2^2}$
- (b)  $F = \frac{\sigma_1^2}{\sigma_2^2}$
- (c)  $F = \frac{\sigma_1^2}{s_2^2}$
- (d)  $F = \frac{s_1^2}{\sigma_2^2}$

PART -B

(2 X 5 = 10 marks)

II. Answer all the questions, choosing either (a) or (b).

3. (a) A group of 10 rats fed on a diet A and another group of 8 rats fed on a different diet B recorded the following increase in weight in gms.

Diet A	5	6	8	1	12	4	3	9	6	10
Diet B	2	3	6	8	1	10	2	8	-	-

Test whether diet A is superior to diet B

(OR)

(b) From the following data find whether there is any significant liking in the habit of taking soft drinks among the categories of employees

Employees	Clerks	Teachers	Officers	Total
Soft drinks				
Pepsi	10	25	65	100
Thumps up	15	30	65	110
Bovanto	50	60	30	140
Total	75	115	160	350

4. (a) Describe the technique of two-way classification.

(OR)

(b) In one sample of 8 observations the sum of the squares of deviations of the sample values from the sample mean was 84.4 and in another sample of 10 observations it was 102.6. Test whether the difference in variances is significant at 5% level of significance using F- test.

PART -C

(1 X 8 = 8 marks)

III. Answer the questions, choosing either (a) or (b).

5. (a) The Following table shows the lines in hours of four batches of electric lamps

Batches	S <sub>1</sub>	S <sub>2</sub>	S <sub>3</sub>	S <sub>4</sub>	S <sub>5</sub>	S <sub>6</sub>	S <sub>7</sub>	S <sub>8</sub>
A	1600	1610	1650	1680	1700	1720	1800	-
B	1580	1640	1640	1700	1750	-	-	-
C	1460	1550	1600	1620	1640	1660	1740	1820
D	1510	1520	1530	1570	1600	1680	-	-

Perform an analysis of variance of these data and show that a significant test does not reject their homogeneity.

(OR)

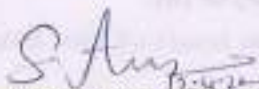
(b) Two random samples drawn from 2 normal populations are given below. Test whether the 2 populations have the same variance.

Sample 1	20	16	26	27	23	22	18	24	25	19	-	-
Sample 2	17	23	32	25	22	24	28	6	31	33	20	27

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Annai Hajira Women's College  
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IV SEMESTER, II INTERNAL TEST- APRIL -2022

II B.Sc (Mathematics)  
BUSINESS ENGLISH

Date: 10/04/2022  
Subject Code: ANEN41

Time: 1 hr  
Marks: 20

PART - A

I Choose the correct answer

2 x 1 = 2

- The structure of the business letter has -----elements.  
(a) five  
(b) six  
(c) seven  
(d) eight
- is an entire report in nutshell.  
(a) summary  
(b) discussion  
(c) acknowledgement  
(d) introduction

PART - B

II Answer all the questions choosing either (a) or (b) 2 x 5 = 10

- (a) What are the optional elements in a business letter?  
(OR)  
(b) Comment on the contents of a technical proposal.
- (a) Draft an outline of a formal report.  
(OR)  
(b) Write a short note for sales letter, claim letter and adjustment letter.

PART - C

III Answer the following choosing either (a) or (b) 1 x 8 = 8

- (a) List out the categories of written reports for formal reports.

(OR)

- (b) Prepare an effective resume with the covering letter for the post of a manager of a company.

\*\*\*\*\*

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Department of Mathematics

IV SEMESTER, II INTERNAL TEST - APRIL-2022

II B. Sc - MATHEMATICS

TRIGONOMETRY, LAPLACE TRANSFORMS AND FOURIER SERIES

Max. Mark: 20

Subject Code: ASMA41

Max. Hour: 1 hour

Date: 20.04.2022

PART -A

(2 X 1=2 marks)

I. Choose the correct answer

1.  $\tan(ix) =$  \_\_\_\_\_

- (a)  $i \tan x$  (b)  $i \tan hx$   
 (c)  $-i \tan x$  (d)  $\tan x$

2. If  $z$  is real then  $\text{Log } z$  is \_\_\_\_\_.

- (a) purely real (b) purely imaginary  
 (c) complex (d) None

PART -B

(2 X 5 = 10 marks)

II. Answer all the questions, choosing either (a) or (b).

3. (a) Separate into real and imaginary parts  $\tan^{-1}(x + iy)$

(OR)

(b) If  $\cos(x + iy) = \cos \theta + i \sin \theta$ , Prove that  $\cos 2x + \cosh 2y = 2$

4. (a) If  $\tan(x + iy) = u + iv$ , Prove that  $\frac{u}{v} = \frac{\sin 2x}{\sinh 2y}$

(OR)

(b) If  $\sin(x+iy) = \rho(\cos \alpha + i \sin \alpha)$ , show that  $2\rho^2 = \cosh 2y - \cos 2x$  and  $\tan \alpha = \cot x \tan hy$

PART -C

(1 X 8 = 8 marks)

III. Answer the questions, choosing either (a) or (b).

5. (a) Prove  $u = \log \tan\left(\frac{\theta}{2} + \frac{\pi}{4}\right)$  if and only if  $\cos hu = \sec \theta$

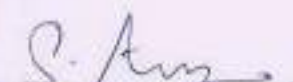
(OR)

(b) Sum to  $n$  terms of the series  $\sin \alpha + c \sin(\alpha + \beta) + c^2 \sin(\alpha + 2\beta) + \dots$  Hence find the sum of the series to  $\infty$  when  $|c| < 1$

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Annai Hajira Women's College

Melapalayam, Tirumelveli - 05

Department of Mathematics

VI SEMESTER

III B. Sc - MATHEMATICS

II INTERNAL TEST - APRIL- 2022

COMPLEX ANALYSIS

Max. Mark: 20

Subject Code: SMMA61

Max. Hour: 1 hour

Date: 11.04.2022

PART -A

(2 X 1=2 marks)

I. Choose the correct answer

1. If C is the circle  $|z-2|=5$ , then  $\int_C \frac{dz}{z-3} =$

- a)  $\pi i$                       b)  $2\pi i$   
c)  $\frac{\pi}{2} i$                       d) 0

2. If C is a circle  $|z|=1$ , then  $\int_C \frac{e^z}{z} dz =$

- a)  $\pi i$                       b)  $\frac{\pi}{2} i$   
c)  $2\pi i$                       d)  $2\pi i . e$

PART -B

(2 X 5=10 marks)

II. Answer the following

3) a) Find the analytic function  $f(z) = u + iv$   
given that  $u - v = e^x(\cos y - \sin y)$

(OR)

b) If  $f(z)$  is analytic Prove that  $(\frac{\partial^2}{\partial x^2} + \frac{\partial^2}{\partial y^2}) |f(z)|^2 = 4|f'(z)|^2$ .

4) a) State and Prove Cauchy's Integral Formula.

(OR)

b) Evaluate using Cauchy's Integral formula  $\frac{1}{2\pi i} \int_C \frac{z^2+5}{z-3} dz$   
where C is  $|z|=4$

PART -C

(1 X 8=8 marks)

III. Answer the following

5) a) State and Prove Cauchy's Integral Theorem  
(OR)

b) Find the analytic function  $f(z) = u + iv$ , for which

$$u + v = \frac{\sin 2x}{\cosh 2y - \cos 2x}$$

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Melapalayam, Tirumelveli - 05

Department of Mathematics

VI SEMESTER, II INTERNAL TEST - APRIL- 2022

III B. Sc - MATHEMATICS

NUMBER THEORY

Max. Mark: 20

Max. Hour: 1 hour

Subject Code: SMMA62

Date: 13.04.2022

PART -A

(2 X 1=2 marks)

I. Choose the correct answer

1.  $\gcd(2, 5) =$  \_\_\_\_\_.

- (a) 0
- (b) 1
- (c) 3
- (d) None of the above

2.  $\text{LCM}(306, 657) =$  \_\_\_\_\_.

- (a) 22338
- (b) 21237
- (c) Both (a) and (b)
- (d) None of the above

PART -B

(2 X 5=10 marks)

II. Answer the following

3. (a) Prove that for positive integers a and b  $\gcd(a, b) \text{ LCM}(a,b) = ab$ .

(OR)

(b) State and prove Euclidean Algorithm.

4. (a) (i). State and prove Euclid's lemma.

(ii). If  $a = qb+r$ , then  $\gcd(a,b) = \gcd(b,r)$ .

(OR)

(b) Prove that given integers are a and b not both of which are zero there exists integers x and y such that  $\gcd(a, b) = ax+by$ .

PART -C

(1 X 8=8 marks)

III. Answer the following

5. (a) State and prove the necessary and sufficient condition for the existence of a solution of diophantine equation.

(OR)

(b) State and prove fundamental theorem of arithmetic.

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Department of Mathematics

VI SEMESTER, II INTERNAL TEST - APRIL - 2022

III B. Sc - MATHEMATICS

GRAPH THEORY

Max. Mark: 20

Max. Hour: 1 hour

Subject Code: SMMA63

Date: 10.04.2022

PART -A

(2 X 1=2 marks)

I. Choose the correct answer

1.  $r(5,3) =$  -----

- a) 14                      b) 18  
c) 19                      d) 15

2. For any two integers  $m, n \geq 2$ ,  $r(m,n) \leq$  -----

- a)  $r(m,n+1) + r(n-1, m+1)$   
b)  $r(m-1,n) + r(m,n-1)$   
c)  $r(m-1,n-1) + r(m-1,n+1)$   
d)  $r(m+1,n) + r(m,n-1)$

PART -B

(2X5 =10 marks)

II. Answer all the questions, choosing either (a) or (b)

3. a) Prove that any self-complimentary graph has  $4n$  or  $4n+1$  points.

(OR)

b) Show that  $r(m,n) = r(n,m)$ .

4. a) A set  $S \subseteq V$  is an independent set of  $G$  iff  $V-S$  is a covering of  $G$ .

(OR)

b) Show that the partition  $P = (7, 6, 5, 4, 3, 2, 1)$  is not graphical.

PART -C

(1 X 8=8 marks)

III. Answer the questions, choosing either (a) or (b)

5. a) Let  $G_1$  be a  $(p_1, q_1)$  graph and  $G_2$  be a  $(p_2, q_2)$  graph. Then

- i)  $G_1 \cup G_2$  is a  $(p_1 + p_2, q_1 + q_2)$  graph.  
ii)  $G_1 + G_2$  is a  $(p_1 + p_2, q_1 + q_2 + p_1 p_2)$  graph.  
iii)  $G_1 \times G_2$  is a  $(p_1 p_2, q_1 p_2 + q_2 p_1)$  graph.  
iv)  $G_1 [ G_2 ]$  is a  $(p_1 p_2, p_1 q_2 + p_2^2 q_1)$  graph.

(OR)

b) State and prove Gallai's theorem.

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**Annai Hajira Women's College**

Melapalayam, Tirunelveli - 05

**Department of Mathematics**

**VI SEMESTER, II INTERNAL TEST – APRIL - 2022**

**III B. Sc - MATHEMATICS**

**DYNAMICS**

**Duration: 1 Hr.**

**Marks: 20**

**Subject Code: SMMA64**

**Date: 16.04.2022**

**PART -A**

**(2 X 1=2 marks)**

**I. Choose the correct answer**

1. If a particle moves in a central orbit then which one of the following condition is satisfied?

(a)  $\dot{r}\dot{r} = 0$

(b)  $\dot{r}\dot{r} - r\dot{\theta}^2 = 0$

(c)  $\frac{d}{dt}(r^2\dot{\theta}) = 0$

(d)  $r\dot{\theta}^2 = 0$

2. The (P-r) equation of a parabola is

(a)  $p^2 = ar^3$

(b)  $p = ar$

(c)  $p = ar^2$

(d)  $p^2 = ar$

**PART -B (2X5 =10 marks)**

**II. Answer all the questions, choosing either (a) or (b)**

3. (a) The velocities of a particle along and perpendicular to the radius vector from a fixed origin are  $\lambda r$  and  $\mu\theta$ ; find the path and show that the radial and transverse acceleration are  $\lambda^2 r - \frac{\mu^2\theta^2}{r}$  and  $\mu\theta(\lambda + \frac{\mu}{r})$

**(OR)**

(b) Obtain the (p-r) equation of the central orbit.

4. (a) A particle moves in the path given  $r = ae^{\theta}$  with no force along the radius vector. Show that the angular velocity of the particle is constant and the speed varies as its distance from the pole. Show that its acceleration is directly proportional to  $r$  in magnitude.

**(OR)**

(b) Find the law of force towards the pole under which the curve  $r^2 = a^2 \cos 2\theta$  can be described

**PART -C**

**(1 X 8=8 marks)**

**III. Answer the questions, choosing either (a) or (b)**

5. (a) A point moves with uniform speed  $v$  along a cardioids  $r = a(1 + \cos\theta)$ . Show

that (i) its angular velocity  $\omega$  about the pole is  $v \frac{\sec^2 \theta / 2}{2a}$

(ii) the radial component of the acceleration is constant equal to  $\frac{3v^2}{4a}$

(iii) the magnitude of the resultant acceleration is  $\frac{3v\omega}{2}$

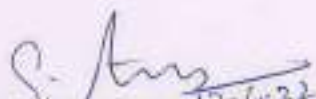
**(OR)**

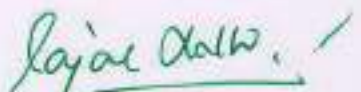
(b) Derive the differential equation of the central orbit in polar coordinates

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# Annai Hajira Women's College

Melapalayam, Tirunelveli - 05

Department of Mathematics

VI Semester, II Internal Test- April-2022

III B.Sc Mathematics

NUMERICAL METHODS

Max.Mark : 20

Subject code : SMMA65

Max.Hour : 1 Hour

Date : 19.04.2022

Part - A

(2x1=2 marks)

### I. Choose the correct answer

1. The solution of the equations  $2x + 3y + 2z = 7$ ,  $-3y + z = -2$ ,  $4z = 4$  is -----

- (a) (1,1,1)
- (b) (1,2,1)
- (c) (2,3,4)
- (d) none

2. ----- method is a refinement of Gauss Jacobi method.

- (a) Crout's method
- (b) Gauss Seidel iteration method
- (c) Regula Falsi method
- (d) Horner's method

Part - B

(2x5=10 marks)

### II. Answer all the questions choosing either (a) or (b)

3) a) Solve the following system of equations using Gauss Elimination method.

$$x + y + z = 9, 2x - 3y + 4z = 13, 3x + 4y + 5z = 40$$

(OR)

(b) Solve the following equations by Gauss Jordan method.

$$x + y = 2, 2x + 3y = 5$$

4) a) Is the system of equations diagonally dominant? If not make it diagonally dominant.

$$3x + 9y - 2z = 10, 4x + 2y + 13z = 19, 4x - 2y + z = 3.$$

(OR)

b) Solve  $2x + y = 3$ ,  $2x + 3y = 5$  by Gauss Seidel iteration method.

Part - C

(1x8=8 marks)

### III. Answer the following

5) a) Find the inverse of the matrix  $A = \begin{pmatrix} 2 & 1 & 1 \\ 3 & 2 & 3 \\ 1 & 4 & 9 \end{pmatrix}$  using Gaussian method.

(OR)

b) Solve the following equations using Jacobi's iteration method.

$$3x + 4y + 15z = 54.8, x + 12y + 3z = 39.66, 10x + y - 2z = 7.74.$$

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Melapalayam, Tirumelveli - 05

Department of Mathematics

VI SEMESTER, II INTERNAL TEST - APRIL- 2022

III B. Sc - MATHEMATICS

FUZZY MATHEMATICS

Max. Mark: 20

Subject Code: SEMA6B

Max. Hour: 1 hour

Date: 20.04.2022

PART -A

(2 X 1=2 marks)

I. Choose the correct answer

1.  $C(0)$  is \_\_\_\_\_.

- (a) 2
- (b) 0
- (c) 1
- (d)  $C(1)$

2. The boundary condition of fuzzy intersection is  $i(a, 1)$  \_\_\_\_\_.

- (a) a
- (b) b
- (c) 1
- (d) 0

PART -B

(2 X 5 = 10 marks)

II. Answer all the questions, choosing either (a) or (b).

3. (a) For all  $a, b \in [0,1]$   $i_{\min}(a, b) \leq i(a, b) \leq \min(a, b)$  were  $i_{\min}$  denotes the drastic intersection

(OR)

(b) The standard fuzzy intersection is the only idempotent t - norm

4. (a) Every fuzzy complement has atmost one equilibrium

(OR)

b) State and prove third decomposition theorem.

PART -C

(1 X 8 = 8 marks)

III. Answer the questions, choosing either (a) or (b).

5. (a) Let a function  $C : [0, 1] \rightarrow [0, 1]$  satisfy axioms  $C_2$  and  $C_4$ . Then  $c$  also satisfies axioms  $C_1$  and  $C_3$  more over  $C$  must be a bijective function

(OR)

(b) State and prove first characterization theorem for fuzzy complement.

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# Annai Hajira Women's College

Melkupalayam, Tirumelveli - 05

Department of Mathematics

VI SEMESTER, II INTERNAL TEST - APRIL- 2022

III B. Sc - MATHEMATICS

OPERATIONS RESEARCH II

Max. Mark: 20

Subject Code: SEMA6D

Max. Hour: 1 hour

Date: 20.04.2022

PART -A

(2 X 1=2 marks)

## I. Choose the correct answer

1. The problem of replacement is not concerned about the \_\_\_\_\_

- a) Items are deteriorated graphically
- b) Items that fail suddenly
- c) Determination of optimum replacement interval
- d) Maintenance of an item to work out profitability

2. In critical path analysis, the word CPM means

- a) Critical Path Method
- b) Crash Project Management
- c) Critical Project Management
- d) Critical Path Management

PART -B

(2 X 5=10 marks)

## II. Answer the following

3. a) A machine cost Rs. 5,000 and running costs are estimated at Rs. 800 for each of the first five years, increasing by Rs. 200 per year in the sixth and subsequent years. Find after how many years it should be replaced?

(OR)

b) A manual stamper currently valued at Rs. 1000 is expected to last 2 years and costs Rs. 4000 per year to operate. An automatic stamper which can be purchased for Rs. 3000 will last for 4 years and can be operated at

an annual cost of Rs. 3000. If money carries the rate of interest 10% per annum, determine which stamper should be purchased.

4. a) Find the critical path and duration of the project

Activity	A	B	C	D	E	F	G	H	I	J
Predecessor	-	-	A	B	C,D	C,D	E	E	F,G	H,I
Duration (days)	4	6	9	7	4	4	3	6	9	4

(OR)

b) A project has the following time schedule :

Activity	1-2	1-3	1-4	2-5	3-6	3-7	4-6	5-8	6-9	7-8	8-9
Time (week)	2	2	1	4	8	5	3	1	5	4	3

Construct PERT network and compute the critical path and its duration.

PART -C

(1 X 8=8 marks)

## II. Answer the following

5. a) The following failure rates have been observed for a certain type of transistors in a digital computer:

End of the week	1	2	3	4	5	6	7	8
Probability of failure rate	0.05	0.13	0.25	0.43	0.68	0.88	0.96	1.00

The cost of replacing an individual failed transistor is Rs 1.25. The decision is made to replace all these transistors simultaneously at fixed intervals and to replace the individual transistors as they fail in service. If the cost of group replacement is 30 paise per transistor, what is the best interval between group replacement?

(OR)

b) A Project consists of eight activities with the following relevant information

Activity	Immediate Predecessor	Estimated duration(days)		
		Optimistic	Most likely	Pessimistic
A	-	1	1	7
B	-	1	4	7
C	-	2	2	8
D	A	1	1	1
E	B	2	5	14
F	C	2	5	8
G	D,E	3	6	15
H	F,G	1	2	3

- (i) Draw the PERT and find out the expected project completion time.
- (ii) What duration will have 95% confidence for project completion?
- (iii) If the average duration of activity F increase to 14 days, what will be its effect on the expected project completion time which will have 95% confidence? (hint :  $P(0 \leq z \leq 1.645) = 0.45$ )

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# *Annai Hajira Women's College*

*Melapalayam, Tirunelveli-05*

(A Unit of As-Sathiq Educational Society)

(Affiliated to Manonmaniam Sundaranar University)

## **DEPARTMENT OF PHYSICS**



# Annai Hajira Women's College

Melapalayam, Tirumelveli - 05

II Semester, III Internal Test - April 2022

I B.Sc Physics

Value Based Education

Sub code: CVBE21

Date: 16.04.2022

Time: 1 hr

Total: 20 marks

Part-A (2x1=2 marks)

I Choose the correct answer:

1. A good citizen must have-----

- (a) Patriotism
- (b) Good Education
- (c) Tolerance
- (d) All the above

2. Women's issues were raised for the first time in ----- century

- (a) 19<sup>th</sup>
- (b) 18<sup>th</sup>
- (c) 17<sup>th</sup>
- (d) 20<sup>th</sup>

Part B (2x5=10 marks)

II Answer all the questions, choosing either (a) or (b). Each answer should not exceed 250 words.

3.(a) What are Human Rights?

(OR)

(b) Describe any three human rights enshrined in the constitution of India.

4.(a) Explain the need for women right.

(OR)

(b) What are the indicators of women empowerment?

Part C (1x8=8 marks)

III Answer the question, choosing either (a) or (b). Answer should not exceed 600 words.

5.(a) How does violation of human rights occur?

(OR)


(b) Write an overview about Women rights.

\*\*\*\*\*

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# Annai Hajira Women's College

Melapalayam, Tirumelveli - 05

II Semester, I Internal Test - April 2022

I B.Sc Physics

Optics & Thermal Physics

Sub code: CMPH21

Date: 19.04.2022

Time: 1 hr

Total: 20 marks

Part-A (2x1=2 marks)

I Choose the correct answer:

1. The ' $\lambda$ ' point temperature of Helium is -----

(a) 2.19K

(b) 2.19°C

(c) 0K

(d) 100°C

2. The refrigerant used in large refrigerating plants is

(a) Chlorofluorocarbons

(b) ammonia

(c) sulphur di-iodide

(d) carbon monoxide

Part B (2x5=10 marks)

II Answer all the questions, choosing either (a) or (b). Each answer should not exceed 250 words.

3. (a) Explain the Joule-Thomson porous plug experiment with neat diagram.

(OR)

(b) What are the different methods of producing low temperature?

4. (a) Write a note on regenerative cooling.

(OR)

(b) Write a note on Helium I and Helium II.

Part C (1x8=8 marks)

III Answer the question, choosing either (a) or (b). Answer should not exceed 600 words.

5. (a) Explain the adiabatic-demagnetization.

(OR)

(b) Explain the working of refrigerator with suitable diagram. Define the co-efficient of performance of a refrigerator.

\*\*\*\*\*

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# Annai Hajira Women's College

Melapalayam, Tirunelveli - 05

IV Semester, II Internal Test - April 2022

II B.Sc Physics

Electromagnetism

Sub Code: SMPH41

Date: 16.04.2022

Total: 20 marks

Time: 1 hr

### Part -A (2x1=2 marks)

I Choose the correct answer:

1. The Lorentz force acting on a charged particle moving parallel to a uniform magnetic field is-----

- (a) Maximum
- (b) Minimum
- (c) Infinite
- (d) Zero

2. Velocity of plane (c) electromagnetic wave in vacuum is-----

- (a)  $\sqrt{\mu_0/\epsilon_0}$
- (b)  $\sqrt{\mu/\epsilon}$
- (c)  $\sqrt{\mu_r/\epsilon_r}$
- (d)  $\sqrt{\epsilon_0/\mu_0}$

### Part -B (2x5=10 marks)

II Answer all the questions, choosing either (a) or (b). Each answer should not exceed 250 words.

3. (a) Describe the experiment to find absolute capacity of a capacitor using ballistic galvanometer.

(OR)

(b) Construct De Sauty's bridge and obtain the balance condition.

4. (a) Derive the relation connecting three magnetic vectors.

(OR)

(b) Describe Hertz experiment for production and detection of electromagnetic wave.

### Part -C (1x8=8marks)

III Answer the question, choosing either (a) or (b). Answer should not exceed 600 words.

5. (a) With neat diagram describe the construction and working of ballistic galvanometer. Also derive the momentary charge.

(OR)

(b) Derive the Poynting vector for an electromagnetic wave.

\*\*\*\*\*

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# Annai Hajira Women's College

Melapalayam, Tirumelveli - 05

IV Semester, II Internal Test – April 2022

II B.Sc Physics

Maintenance of Electronic Appliances

Sub Code: ASPH41

Date: 18.04.2022

Time: 1 hr

Total: 20 marks

Part-A (2x1=2 marks)

I Choose the correct answer:

1. The resistance scale of analogue multimeter is-----

- (a) rectangular
- (b) linear
- (c) non-linear
- (d) none

2. Thermistor is-----

- (a) passive TD
- (b) active TD
- (c) secondary TD
- (d) none

Part B (2x5=10 marks)

II Answer all the questions, choosing either (a) or (b). Each answer should not exceed 250 words.

3.(a) Describe how you would detect a faulty capacitor.

(OR)

(b) Explain the functioning of an R.F oscillator.

4(a) What are transducers? Give three examples.

(OR)

(b) Describe capacitive transducer of variable air-gap type.

Part C (1x8=8 marks)

III Answer the question, choosing either (a) or (b). Answer should not exceed 600 words.

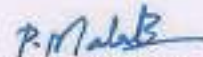
5.(a) Describe, with a neat sketch, a cathode ray tube.

(OR)


(b) Describe the action of a piezoelectric transducer.

\*\*\*\*\*

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**Annai Hajira Women's College**  
**Melapalayam**

IV SEMESTER, II INTERNAL TEST – April 2022

II B.Sc. PHYSICS  
ALLIED CHEMISTRY II

Duration: 1Hr

Subject Code: AACH21

Marks : 20 marks

Date : 20.04.2022

**PART – A**

**(2×1=2 Marks)**

**I Choose the Correct Answer**

1. Nuclear fission reactions are \_\_\_\_\_

- (a) Phenanthrene Chain reactions
- (b) Thermal reactions
- (c) Very fast
- (d) Destructive

2. \_\_\_\_\_ is used in carbon dating

- (a) C-12
- (b) C-13
- (c) C-14
- (d) All of these

**PART – B**

**(2×5=10 Marks)**

**II Answer any two of the following**

3. (a) Discuss the applications of radioactive isotopes.

**(OR)**

(b) Explain nuclear fusion and fission.

4. (a) Write a short note on packing fraction.

**(OR)**

(b) Discuss the classification of carbohydrates.

**PART – C**

**(1×8=8 Marks)**

**III Answer any one of the following**

5. (a) What are isotopes? Explain the method of separation of isotopes by diffusion method.

**(OR)**

(b) Write a note on carbon dating.

\*\*\*\*\*

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# Annai Hajira Women's College

Melapalayam, Tirumelveli -05

VI Semester, II Internal Test – April 2022

III B.Sc Physics

Digital Electronics

Sub code: SMPH61

Date:11.04.2022

Time: 1 hr

Total: 20 marks

## Part-A(2x1=2 marks)

I Choose the correct answer:

1.The Boolean expression  $\overline{AB} = Y$  is a representation of output of which logic function?

- (a)AND
- (b)OR
- (c)NAND
- (d)NOR

2.Full subtractor is used to perform subtraction of

- (a)2 bits
- (b)3 bits
- (c)4 bits
- (d)8 bits

## Part B (2x5=10 marks)

II Answer all the questions,choosing either (a) or (b).Each answer should not exceed 250 words.

3.(a) Explain how NOT operation is implemented using transistor.

(OR)

(b )(i)Explain about exclusive OR gate.

4(a) What is half adder?Draw and explain half adder with logic diagram and truth table.

(OR)

(b) Draw and explain D flip flop.

## Part C (1x8=8 marks)

III Answer the question,choosing either (a) or (b).Answer should not exceed 600 words.


5.(a) State and prove De-Morgan's theorem.

(OR)

(b)Explain the operation of JK flip flop,giving truth table.

\*\*\*\*\*

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# Annai Hajira Women's College

Melapalayam, Tirumelveli - 05

VI Semester, II Internal Test – April 2022

III B.Sc Physics  
Quantum Mechanics

Sub code: SMPH62

Date: 12.04.2022

Time: 1 hr

Total: 20 marks

Part-A(2×1=2 marks)

I Choose the correct answer:

1.The phase velocity of a particle whose velocity is much less than the velocity of light is \_\_\_\_\_.

- (a) v
- (b) v/2
- (c) 2v
- (d) -v

2.The uncertainty in the frequency of radiation with uncertainty in energy  $1.054 \times 10^{-26}$  J is \_\_\_\_\_.

- (a)  $1.59 \times 10^7$  Hz
- (b)  $159 \times 10^7$  Hz
- (c)  $15.9 \times 10^7$  Hz
- (d)  $.159 \times 10^7$  Hz

Part B (2×5=10 marks)

II Answer all the questions, choosing either (a) or (b). Each answer should not exceed 250 words.

3.(a) Derive de Broglie wavelength for matter waves. Also explain wave-particle duality.

(OR)

(b) Derive phase velocity and group velocity for de-Broglie wave.

4.(a) Give the elementary proof of uncertainty relation between energy and time.

(OR)

(b) Elucidate the consequences of the uncertainty relation.

Part C (1×8=8 marks)

III Answer the question, choosing either (a) or (b). Answer should not exceed 600 words.

5.(a) Illustrate Heisenberg's uncertainty relation using thought experiment.

(OR)

(b) Describe Davisson and Germer experiment to verify De-Broglie's relation.

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Melapalayam, Tirunelveli - 05

VI Semester, II Internal Test – April 2022

III B.Sc Physics  
Nuclear Physics

Sub code: SMPH63

Time: 1 hr

Date: 15.04.2022

Total: 20 marks

Part-A(2x1=2 marks)

I Choose the correct answer:

1. If the Q value of the nuclear reaction is less than zero, the reaction is

- (a) endothermic
- (b) exothermic
- (c) elastic collision
- (d) none of the above

2. The energy released by fission of 1kg of U-235 is -----

- (a)  $2.26 \times 10^7$  Kwh
- (b) 0 joule
- (c) 1000 joule
- (d) 2.26 joule

Part B (2x5=10 marks)

II Answer all the questions, choosing either (a) or (b). Each answer should not exceed 250 words.

3.(a) Write a note on nuclear isomerism.

(OR)

(b) Write a note on radio isotopes. What are the uses of radio isotopes?

4.(a) Describe nuclear fission. Explain the construction of atom bomb.

(OR)

(b) Explain the concept of plasma confinement.

Part C (1x8=8 marks)

III Answer the question, choosing either (a) or (b). Answer should not exceed 600 words.

5. (a) What is Massbauer effect? Write the applications of it.

(OR)

(b) Explain the important parts and working of nuclear reactor with relevant picture.

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# Annai Hajira Women's College

Melapalayam, Tirunelveli - 05

VI Semester, II Internal Test - April 2022

III B.Sc Physics

Solid State Physics

Sub code: SMPH64

Date: 10.04.2022

Time: 1 hr

Total: 20 marks

Part-A (2x1=2 marks)

I Choose the correct answer:

1. Ionic polarization takes place in-----

(a)  $10^{-12}$  to  $10^{-13}$  s

(b)  $10^{-10}$  to  $10^{-11}$  s

(c)  $10^{-9}$  to  $10^{-10}$  s

(d)  $10^{-5}$  s

2. Most widely used precursor in sol-gel technique is-----

(a) TMS

(b) TMOS

(c) OTC

(d) OH group

Part B (2x5=10 marks)

II Answer all the questions, choosing either (a) or (b). Each answer should not exceed 250 words.

3.(a) Explain Hysteresis loop.

(OR)

(b) Derive an expression for ionic polarizability.

4.(a) Describe the structure and properties of graphene.

(OR)

(b) Describe, giving neat sketch of equipment, the synthesis of nanomaterials by chemical vapour deposition method.

Part C (1x8=8 marks)

III Answer the question, choosing either (a) or (b). Answer should not exceed 600 words.

5.(a) Derive an expression for local field at a point inside a dielectric medium, subjected to an electric field.

(OR)

(b) List out the properties of nanomaterials, giving illustrative examples.

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# Annai Hajira Women's College

Melapalayam, Tirumelveli - 05

VI Semester, II Internal Test - April 2022

III B.Sc. Physics

Energy Physics

Sub Code : SEPH6B

Date: 17.04.2022

Total: 20 marks

Time: 1 hr

Part -A (2×1=2 marks)

(I) Choose the correct answer:

1. A liquid flat plate collector is usually held tilted in a fixed position, facing ----- if located in the northern hemisphere

- (a) North
- (b) South
- (c) East
- (d) West

2. Which of the following statements is not true about solar cells?

- (a) it has no moving parts
- (b) it is reliable and almost maintenance free
- (c) it is modular in design
- (d) it is cheap and efficient

Part -B (2×5=10 marks)

(II) Answer all the questions choosing either (a) or (b):

1. (a) Describe, with neat sketch, the functioning of solar water heater. What are the advantages and disadvantages of solar water heater?

(OR)

(b) Write notes on solar cooker in detail with a neat diagram.

2. (a) Explain the principle of working of photovoltaic cell.

(OR)

(b) Explain the current voltage characteristics of a solar cell and give an expression for maximum power output.

Part -C (1×8=8marks)

(III) Answer all the questions choosing either (a) or (b):

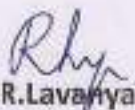
3. (a) Discuss about the solar distillation and solar disinfection units with neat sketch.


(OR)

(b) Derive an expression for maximum power output of a solar cell.

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Melapalayam, Tirumelveli - 05

I Semester, II Internal Test - November 2021

I B.Sc Physics

Professional English for Physical Sciences I

Sub code : APPS11

Date : 17.11.2021

Total: 20 marks

Time: 1 hr

Part -A (2x1=2 marks)

I Choose the correct answer:

1. Unscramble the word Ramanerdeeetni

- (a) Molecular
- (b) Raman effect
- (c) Mercury
- (d) Mediterranean

2. When is the world radio day celebrated?

- (a) 14<sup>th</sup> March
- (b) 13<sup>th</sup> March
- (c) 20<sup>th</sup> March
- (d) 13<sup>th</sup> March

Part -B (2x5=10 marks)

II Answer all the questions choosing either (a) or (b):

3.a) Write a sentence using each of the following words:

- (a) Voyages
- (b) Mystery
- (c) Molecule
- (d) Dynamic
- (e) Phenomenon

(OR)

b) Give the antonyms for the following words:

- (a) Displeasure
- (b) unimagative
- (c) constructively
- (d) inconstant
- (e) drying

4.(a) Write five sentences about the significance of Newton's theory in physics.

(OR)

(b) Can Artificial Intelligence replace human intelligence? State reasons.

Part -C (1x8=8marks)


III Answer all the questions choosing either (a) or (b):

5.(a) What kind of robot will you create in future if you get a chance?

(OR)

(b) Write a short note on the similarities and differences between biomass and biofuels.

  
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I Semester, I Internal Test - November 2021

I B.Sc Physics

PROPERTIES OF MATTER & MECHANICS

Sub code : SMPH11

Date :17 .11.2021

Total: 20 marks

Time: 1 hr

Part A (2x1=2 marks)

I Choose the correct answer:

1. The limits of Poisson's ratio of a material are-----

- (a) 0.5 and -1
- (b) -0.5 and 1
- (c) 1.5 and 0.5
- (d) -1.5 and 0

2. If the length of the cantilever is doubled, the depression at the loaded end is-----

- (a) doubled
- (b) quadruple
- (c) eight times increased
- (d) sixteen times increased

Part - B (2x5=10 marks)

II Answer all questions by choosing either (a) or (b):

3. (a) Write the three types of elastic moduli.

(OR)

(b) Derive an expression for work done per unit volume in shearing strain.

4. (a) Derive an expression for couple per unit twist.

(OR)

(b) Derive an expression for bending moment.

Part - C

(1x8=8marks)

III Answer the following by choosing either (a) or (b):

5. (a) Describe experimental determination of Poisson's ratio of rubber.

(OR)

(b) With theory, explain the experiment to determine young's modulus by uniform bending method using microscope.

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I SEMESTER, II INTERNAL TEST - NOVEMBER- 2021

I B. Sc - PHYSICS

ALGEBRA AND DIFFERENTIAL EQUATIONS

Max. Mark: 20

Subject Code: BAMA11

Max. Hour: 1 hour

Date: 19.11.2021

PART -A

(2 X 1=2 marks)

I. Choose the correct answer

1. The equation  $x^3+x^2+x+1=0$  has \_\_\_\_\_

- two real roots and one complex root.
- exactly one real root and two complex roots.
- three real roots.
- three complex roots.

2. Any non-singular square matrix of order n is equivalent to -----

- the identity matrix of order n.
- any diagonal matrix of order n.
- scalar matrix of order n.
- the zero matrix of order n.

PART -B

(2X5 =10 marks)

II. Answer all the questions, choosing either (a) or (b)

3. (a) Increase the roots of the equation  $4x^5-2x^3+7x-3 = 0$  by 2.

(OR)

(b) Obtain by Newton's method the root of the equation  $x^3-3x+1 = 0$  which lies between 1 and 2.

4. (a) Test whether the equation  $2x-3y+7z =5$ ,  $3x+y-3z=13$ ,  $2x+19y-47z=32$  are consistent or not.

(OR)

(b) For what values of a the equations  $x+y+3z = 0$ ,  $4x+3y+az=0$ ,  $2x+y+2z=0$  have a nontrivial solution?

PART -C

(1 X 8=8 marks)

III. Answer the questions choosing either (a) or (b)

5. (a) Find the negative root of  $x^3-x^2+12x+24=0$  correct to two places of decimals.

(OR)

(b) State and prove Cayley Hamilton Theorem.

\*\*\*\*\*

*N. Jayalalitha*  
QPS

*S. Anus*  
HOD

*Lajee Dalw*  
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ANNAI HAJIRA WOMEN'S COLLEGE  
MELAPALAYAM - 627 005.



Annai Hajira Women's College  
Melapalayam, Tirunelveli -05

I Semester, II Internal Test, November 2021  
I B.Sc Physics

Environmental Studies

Sub code: AEVS11

Total: 20 marks

Date: 20.11.2021

Time: 1 hr

Part -A

(2×1=2 marks)

I Choose the correct answer:

1. Example for tertiary consumers is-----

- (a) shark
- (b) Molluscus
- (c) crab
- (d) small fishes

2. The major producers in pond ecosystem are-----

- (a) phytoplanktons
- (b) water beetles
- (c) Zoo planktons
- (d) crocodiles

Part -B

(2×5=10 marks)

II Answer all the questions choosing either (a) or (b):

3. (a) Explain the structure of desert ecosystem.

(OR)

(b) Explain the structure of a grassland ecosystem.

4. (a) Define food chain. Explain the two types of food chains.

(OR)

(b) Write a note on soil erosion.

Part -C

(1×8=8marks)

III Answer all the questions choosing either (a) or (b):

5. (a) Write a note on ecological pyramids.

(OR)

(b) What do you mean by ecological succession? Explain the different types of ecological succession.

\*\*\*\*\*

*Ayshah*

QPS

*Ayshah*

HOD

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*Lajou A. A.*

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**Annai Hajira Women's College**  
**Melapalayam, Tirunelveli – 627 005**

**III Internal Assessment Test November 2021**

**II B.Sc., Physics**  
**Electricity**

**Subject Code: AMPH31**

**Date :17.11.2021**

**Time Duration: 1-hour**

**Total marks: 20**

**Part – A**

**(2x 1 = 2 marks)**

**I Choose the correct answer:**

1. The decay of charge in C-R circuit is  $Q = \text{-----}$

(a)  $Q_0 e^{-\frac{t}{CR}}$

(b)  $Q_0 e^{\frac{t}{CR}}$

(c)  $Q_0 \left(1 + e^{-\frac{t}{CR}}\right)$

(d)  $Q_0 \left(1 - e^{-\frac{t}{CR}}\right)$

2. In a pure inductor,

(a) The current is in phase with the applied voltage

(b) The current leads the applied voltage by  $90^\circ$

(c) The current lags the applied voltage by  $90^\circ$

(d) The current lags the applied voltage by  $180^\circ$

**Part – B (5 × 2 = 10 marks)**

**II Answer the questions by choosing either (a) or (b)**

1. (a) State Kirchoff's laws. Elucidate the application Kirchoff's law in Wheatstone's bridge.

**(OR)**

(b) Obtain the instantaneous charge  $Q$  during the growth of charge in capacitance – resistance circuit.

2. (a) With the neat circuit diagram, deduce the expression of high resistance by leakage.

**(OR)**

(b) What is alternating current? Derive the expression of current in an ac circuit containing inductance and resistance in series.

**Part – C**

**(8 × 1 = 8 marks)**

**III Answer all the questions choosing either (a) and (b)**

3. (a) Explain in detail the decay of charge in LCR series circuit. Obtain the expression for instantaneous charge. Deduce the frequency of oscillation.

**(OR)**

(b) With necessary derivation obtain an instantaneous current in an ac LCR series resonance circuit.

\*\*\*\*\*

*NSM*  
 QPS [Br.N. Sridani]

*AysLA*

HOD

*Jaganathan*

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Melapalayam, Tirunelveli

III SEMESTER, III INTERNAL TEST – NOVEMBER 2021

II B.Sc. PHYSICS

ALLIED CHEMISTRY – I

Duration: 1Hr

Marks : 20 marks

Subject Code: AACH11

Date : 18.11.2021

## PART – A

(2×1=2 Marks)

### I Choose the Correct Answer

1. The quantum yield of photochemical decomposition of HI is —.

- (a) One
- (b) Zero
- (c) Two
- (d) Abnormal

2. Photochemical reaction takes place in the presence of-----.

- (a) Heat
- (b) Light
- (c) Dark
- (d) X-rays

## PART – B

(2×5=10 Marks)

### II Answer two of the following

3. (a)  $2.409 \times 10^{22}$  quantum of a radiate decompose 0.048 moles of a compound in a photochemical reaction. What is the quantum yield of the reaction?

(OR)

(b) Write the difference between photochemical reaction and thermal reaction.

4. (a) Write the expression of Beer-Lamberts law.

(OR)

(b) Discuss about chemical actinometer.

## PART – C

(1×8=8 Marks)

### III Answer any one of the following

5. (a) Write a note on (i) Phosphorescence (ii) Fluorescence

(OR)

(b) Write a note on photosensitisation.

\*\*\*\*\*

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*Kathija Sufon*  
QPS

(Mrs.M.MUTHU KATHIJA)

*[Signature]*  
HOD

*[Signature]*  
Principal

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Annai Hajira Women's College

Melapalayam, Tirumelveli - 05

III Semester, III Internal Test - October 2021

II B.Sc Physics

Maintenance of Electrical Appliances

Sub code : ASPH3A

Date :20 .11.2021

Total: 20 marks

Time: 1 hr

Part -A (2×1=2 marks)

I Choose the correct answer:

1. The capacity of a washing machine is expressed-----

- (a) litre
- (b) metre
- (c) kg
- (d) farad

2. Overloading is a result of-----

- (a) gravity
- (b) high voltage generator
- (c) short circuit
- (d) none

Part -B (2×5=10 marks)

II Answer all the questions choosing either (a) or (b):

3. (a) Describe the construction of electric iron box and explain it's working.

(OR)

(b) Describe the function of microwave oven.

4. (a) What are the advantage of A.C and D.C.

(OR)

(b) Give the colour code for insulating wire.

Part -C (1×8=8marks)

III Answer all the questions choosing either (a) or (b):

5. (a) Explain about single phase A.C generator.

(OR)

(b) Describe in detail, the star connection.

\*\*\*\*\*

P. Malathi (P.MALATHI)  
QPS

Aysha A.  
HOD

Lajal Datta  
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Melapalayam, Tirunelveli - 05  
V Semester, III Internal Test – November 2021

III B.Sc Physics  
Basic Electronics

Sub code: SMPH51

Date: 15.11.2021

Total: 20 marks

Time: 1 hr

Part -A (2×1=2 marks)

I Choose the correct answer:

1. The push pull circuit must use-----operation

- (a) class A
- (b) class C
- (c) class B
- (d) class AB

2. A bistable multivibrator has-----

- (a) two stable states
- (b) one stable state
- (c) no stable state
- (d) none of the above

Part -B (2×5=10 marks)

II Answer all the questions choosing either (a) or (b):

3. (a) Explain about class A amplifier.

(OR)

(b) What is clipper? Explain about positive clipper circuit..

4. (a) What is differentiator? Explain with neat circuit diagram.

(OR)

(b) Discuss about Schmitt trigger circuit.

Part -C (1×8=8marks)

III Answer all the questions choosing either (a) or (b):

5. (a) Explain the battery oscillator with a neat diagram.

(OR)

(b) With a neat sketch, explain the working of a stable multivibrator.

\*\*\*\*\*

*P. Nalini (P.M.A.T.H.E)*

QPS

*Ayshah*

HOD

*Lajal Akh*

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Melapalayam, Tirunelveli - 627 005

III Internal Assessment Test November 2021  
III B.Sc., Physics  
Computer Programming in C++

Subject Code : SMPH52  
Time Duration: 1 hour

Date :13.11.2021  
Total marks : 20

Part - A  
(2 × 1 = 2 marks)

I Choose the correct answer :

1. The inheritance in which traits of one class may be inherited by more than one class is called \_\_\_\_\_.

- (a) Multilevel inheritance
- (b) Multiple inheritance
- (c) Hybrid inheritance
- (d) Hierarchical inheritance

2. In the statement `cout.setf(arg1, arg2)`, arg 2 represents -----

- (a) ios flags
- (b) ios constants
- (c) Bit fields
- (d) manipulators

Part - B (5 × 2 = 10 marks)

II Answer the questions by choosing either (a) or (b)

3. (a) Explain overloading unary operators with program.

(OR)

(b) Write about single inheritance with suitable program.

4. (a) Write about C++ stream classes and their objectives.

(OR)

(b) Explain about classes for file stream classes.

Part - C

(8 × 1 = 8 marks)

5. (a) Explain multilevel inheritance with the program.

(OR)

(b) Elucidate the formatted console I/O operations with necessary examples.

\*\*\*\*\*

QPS [Dr. N. Sridevi]

Aysha  
12/11/21  
HOD

Lajal Kalu  
PRINCIPAL 12/11/21  
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Melapalayam, Tirunelveli - 05

Semester V III Internal Test, November 2021

III B.Sc Physics

ATOMIC PHYSICS

Sub code: SMPH53

Total: 20 marks

Date: 17.11.2021

Time: 1 hr

Part A (2x1=2 marks)

I Choose the correct answer:

1. Band gap energy of semiconductor is about

- (a) 1 joule
- (b) 1ev
- (c) 6ev
- (d) zero

2. Metals are ----- to visible light

- (a) opaque
- (b) transparent
- (c) either a or b
- (d) None

Part - B (2x5=10 marks)

II Answer all questions by choosing either (a) or (b):

3. (a) Derive an expression for electrical conductivity of a metal.

(OR)

(b) Write the optical properties of solids.

4. (a) Explain the Hall-Effect.

(OR)

(b) With neat diagram, explain the electron microscope.

Part - C (1x8=8marks)

III Answer the following by choosing either (a) or (b):

5. (a) How do you obtain the condition of focusing in Aston's Mass Spectrograph? Explain the theory with relevant diagram.

(OR)

(b) Describe Brainbridge's Mass Spectrograph and explain how atomic masses are determined with it.

\*\*\*\*\*

*Aysha*

QPS

*Aysha A.*

HOD

*Lajja*

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V Semester, III Internal Test - November 2021

III B.Sc Physics

Spectroscopy

Sub code: SEPH5B

Date: 18.11.2021

Time: 1 hr

Total: 20 marks

Part-A(2x1=2 marks)

I Choose the correct answer:

1. Electronic spectrum falls between-----

- (a) visible and UV
- (b) IR and UV
- (c) UV and far IR
- (d) all the above

2. Bolometer is----- IR detector

- (a) thermal
- (b) magnetic
- (c) pneumatic
- (d) none of the above

Part B (2x5=10 marks)

II Answer all questions, choosing either (a) or (b):

3.(a) Discuss Fortrat diagram.

(OR)

(b) Explain Born-Oppenheimer approximation.

4.(a) Describe the single beam infrared spectrometer.

(OR)

(b) Give short notes on monochromators.

Part B (1x8=8 marks)

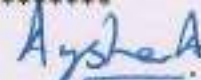
III Answer the following, choosing either (a) or (b):

5.a) Discuss Franck-Condon principle and show how it accounts for intensities of vibrational lines in electronic spectra.

(OR)

b) Explain the double beam infrared spectrometer.

  
S. VIRGIN BRINDHA  
QPS

\*\*\*\*\*  
  
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V Semester, III Internal Test – November 2021

III B.Sc Physics

Numerical Methods

Sub code : SMPH5D

Date : 20.11.2021

Total: 20 marks

Time: 1 hr

Part –A (2×1=2 marks)

I Choose the correct answer:

- The error in Trapezoidal formula is of the order-----  
 (a)  $h^2$   
 (b)  $h^4$   
 (c)  $h$   
 (d)  $h^5$
- Simpson's 1/3 rule approximate the area of two adjacent strips by the area under a-----  
 (a) Quadratic parabola  
 (b) Closed formula  
 (c) Romberg's formula  
 (d) Integration formula

Part –B (2×5=10 marks)

II Answer all the questions choosing either (a) or (b):

- (a) Using Lagrange's method fit a polynomial to the data also find y at x = 2.

x	0	1	2	3
y	-12	0	6	12

(OR)

- Derive Newton's backward difference formula to compute the Derivatives.

- (a) Evaluate the following definite integral by using Simpson's 1/3 rule dividing the range into 6 equal parts.

$$\int_0^{\pi/2} \sin x \, dx$$

(OR)

- (b) Using Trapezoidal rule evaluate  $\int_{0.6}^2 y \, dx$  from the following table.

x	0.6	0.8	1.0	1.2	1.4	1.6	1.8	2.0
y	1.23	1.58	2.03	4.32	6.25	8.36	10.23	12.45

Part –C (1×8=8marks)

III Answer all the questions choosing either (a) or (b):

- (a) Derive Richardson's extrapolation method.

(OR)

- (b) Derive Simpson's 1/3 rule.

\*\*\*\*\*

Rhp  
 QPS [R.LAVANYA]

*Aysha*

HOD

*Lajja*

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## **DEPARTMENT OF CHEMISTRY**



**Annai Hajira Women's College**

Melapalayam, Tirunelveli

I SEMESTER, II INTERNAL TEST – NOVEMBER 2021

I B.Sc. CHEMISTRY

INORGANIC CHEMISTRY

Duration: 1Hr

Marks : 20 marks

Subject Code: BMCH11

Date : 17.11.2021

**PART – A**

**(2×1=2 Marks)**

**I Choose the Correct Answer**

1. Which of the following has highest ionization potential?

- (a) Be
- (b) B
- (c) Na
- (d) Li

2. Mullikan's scale is based on -----.

- (a) Ionisation energy
- (b) Effective nuclear charge
- (c) Ionisation energy and electron affinity
- (d) Partial ionic character

**PART – B**

**(2×5=10 Marks)**

**II Answer two of the following**

3. (a) How is electronegativity calculated using Pauling's scale?

**(OR)**

(b) How is lattice energy determined by using Born-Haber cycle?

4. (a) Draw MO diagram for  $O_2$  molecule and explain its magnetic behavior.

**(OR)**

(b) Write the postulates of Valence Bond Theory.

**PART – C**

**(1×8=8 Marks)**

**III Answer any one of the following**

5. (a) How does VSEPR theory explain the shapes of molecule?

**(OR)**

(b) What are Ionisation energy and electron affinity? How do they vary in a group as well as in a period?

\*\*\*\*\*

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QPS

(Mrs.M.Muthu Kathija)

*[Signature]*  
HOD

*Jayalalitha*  
Principal

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**Annai Hajira Women's College**  
Melapalayam, Tirunelveli - 05

I SEMESTER, II INTERNAL TEST - NOVEMBER- 2021

I B. Sc - CHEMISTRY

ALGEBRA AND DIFFERENTIAL EQUATIONS

Max. Mark: 20

Subject Code: BAMA11

Max. Hour: 1 hour

Date: 18.11.2021

PART -A

(2 X 1=2 marks)

**I. Choose the correct answer**

1. The system of simultaneous linear equations  $AX=B$  is consistent if only if -----

- a. rank of A = rank of B.
- b. rank of A = rank of (AB).
- c. rank of A  $\neq$  rank of (AB).
- d. None of the above.

2. Horner's method and Newton's method are used to find -----

- a. the exact values of the roots of quadratic equations.
- b. approximation values of the real roots of an equation.
- c. approximation values of the complex roots of quadratic equations.
- d. the positive real roots of an equation.

PART -B

(2X5 =10 marks)

**II. Answer all the questions, choosing either (a) or (b)**

3. (a) State and prove Cayley Hamilton Theorem.

(OR)

(b) Find the characteristic equation of the matrix  $A = \begin{pmatrix} 8 & -6 & 2 \\ -6 & 7 & -4 \\ 2 & -4 & 3 \end{pmatrix}$

4. (a) Show that  $x^3+3x-1=0$  has only one real root and calculate it correct to two places of decimals.

(OR)

(b) Explain Horner's method.

PART -C

(1 X 8=8 marks)

**III. Answer the questions choosing either (a) or (b)**

5. (a) For what values of  $\lambda$  the equations  $x+y+z = 1$ ,  $x+2y+4z=\lambda$ ,  $x+4y+10z=\lambda^2$  have a solution? Solve completely in each case.

(OR)

(b) Find the negative root of  $x^3-x^2+12x+24=0$  correct to two places of decimals.

\*\*\*\*\*

R. Pappade  
QPS

Lajal Das  
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Melapalayam, Tirumelveli

I SEMESTER, II INTERNAL TEST – NOVEMBER 2021

I B.Sc. CHEMISTRY

PROFESSIONAL ENGLISH FOR PHYSICAL SCIENCES I

Duration: 1Hr

Subject Code: BPPS11

Marks : 20 marks

Date : 19.11.2021

## PART – A (2×1=2 Marks)

### I. Choose the Correct Answer

1. A branch of Physics that studies the behavior and properties of light is -----  
(a) Acoustics  
(b) Optics  
(c) Mechanics  
(d) Quantum Physics
2. ----- is an apparatus containing a movable mirror, used to reflect sunlight in a fixed direction.  
(a) Telescope  
(b) Photo detector  
(c) Heliostat  
(d) Spectrometer

## PART – B (2×5=10 Marks)

### II Answer the following

3. (a) Unscramble the following words: (i)Ruptaere  
(ii) Stenyinti (iii)Ecuryfqn (iv)Ottecpsedohtro (v) Oarcmlue  
(OR)  
(b) Write the meaning of (i) Opalescence (ii) Molecular diffraction.

4. (a) What do you know about patenting of scientific products?

(OR)

- (b) Write the differences between sugar and saccharine.

PART – C

(1×8=8 Marks)

### III Answer any one of the following

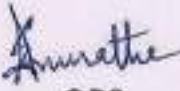
5. (a) Write a detailed note on Biomass and Biofuels.

(OR)

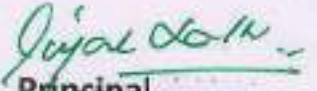
- (b)(i) Describe Marie Curie's contributions to the field of science.  
(ii) List the uses of Hydroxychloroquine.

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III SEMESTER, III INTERNAL TEST – NOVEMBER 2021

II B.Sc. CHEMISTRY

AGRO CHEMISTRY

Duration: 1Hr

Marks : 20 marks

Subject Code: ASCH31

Date : 17.11.2021

## PART – A

(2×1=2 Marks)

### I Choose the Correct Answer

- Which of the following is not a process of chemical weathering -----
  - Hydration
  - Solution
  - Hydrolysis
  - Freezing and melting
- Soil air contains -----
  - Oxygen
  - Nitrogen
  - Mixture of oxygen and nitrogen
  - Contain gases like O<sub>2</sub>, N<sub>2</sub>, CO<sub>2</sub> and water vapour

## PART – B

(2×5=10 Marks)

### II Answer the following

- (a) Write a short notes on sedimentary rocks.

(OR)

- (b) Discuss the various important factors responsible for soil formation.

- (a) Discuss soil forming process.

(OR)

- (b) Explain chemical weathering process.

## PART – C

(1×8=8 Marks)

### III Answer any one of the following

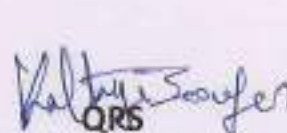
- (a) Discuss the main components of soil.

(OR)

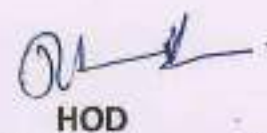
- (b) Write short notes on rocks system.

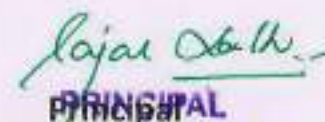
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Annai Hajira Women's College

Melapalayam, Tirumelveli - 05

III Semester, III Internal Test, November 2021

II B.Sc Chemistry

Allied Physics I

Sub code: AAPH11

Total: 20 marks

Date: 18.11.2021

Time: 1 hr

Part -A

(2×1=2 marks)

I Choose the correct answer:

1. The profile of an advancing liquid through a tube is-----

- (a) Straight line
- (b) Parabola
- (c) Semicircle
- (d) None of these

2. The viscous drag in a liquid layer does not depend upon -----

- (a) area
- (b) velocity
- (c) velocity gradient
- (d) nature of liquid

Part -B

(2×5=10 marks)

II Answer all the questions choosing either (a) or (b):

3. (a) Define Surface Tension. How it is explained by molecular theory?

(OR)

(b) Bring out the analogy between liquid flow and current flow.

4. (a) Derive an expression for mean free path of a gas.

(OR)

(b) Obtain an expression for thermal conductivity of a solid.

Part -C

(1×8=8marks)

III Answer all the questions choosing either (a) or (b):

5. (a) Derive the expression for the excess of pressure in a synclastic surface.

(OR)

(b) Derive the Poiseuille's formula for the coefficient of viscosity.

\*\*\*\*\*

Rhp  
QPS [R.LAVANYA]

Aysha

HOD

Jajal xalk

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Melapalayam, Tirunelveli

III SEMESTER, III INTERNAL TEST – NOVEMBER 2021

II B.Sc. CHEMISTRY

ORGANIC CHEMISTRY – I

Duration : 1Hr

Marks : 20 marks

Subject Code: AMCH31

Date : 20.11.2021

## PART – A

(2×1=2 Marks)

### I. Choose the Correct Answer

1. The most stable alkadiene is -----.

- (a) 1,2-Butadiene
- (b) 1,2-Propadiene
- (c) 1,3-Butadiene
- (d) 1,4-Pentadiene

2. Ozonolysis of an alkene gives only acetaldehyde. The alkene is -----.

- (a) 1-Butene
- (b) 2-Butene
- (c) 1-Propene
- (d) 1,3-Butadiene

## PART – B

(2×5=10 Marks)

### II Answer the following

3. (a) Discuss Diel's Alder reaction with two examples.

(OR)

(b) Discuss the acidic nature of acetylides.

4. (a) Discuss Markownikoff's rule with its mechanism.

(OR)

(b) Explain allylic bromination by NBS.

## PART – C

(1×8=8 Marks)

### III Answer the following

5. (a) What is meant by Ozonolysis? With mechanism and one example, list how Ozonolysis reaction helps in determining alkene structure.

(OR)

(b) Discuss the stability of conjugated dienes.

\*\*\*\*\*

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**Annai Hajira Women's College**

Melapalayam, Tirunelveli

V SEMESTER, III INTERNAL TEST – NOVEMBER 2021

III B.Sc. CHEMISTRY

PHYSICAL CHEMISTRY – III

Duration: 1Hr

Subject Code: SMCH52

Marks : 20 marks

Date : 13.11.2021

**PART – A (2×1=2 Marks)**

**I Choose the Correct Answer**

1. UV spectroscopy is also known as -----spectroscopy.

- (a) Vibrational
- (b) Electronic
- (c) Dipole
- (d) Optical

2. CO<sub>2</sub> is a ----- molecule.

- (a) Linear
- (b) Spherical
- (c) Symmetric top
- (d) Asymmetric top

**PART – B (2×5=10 Marks)**

**II Answer the Following Questions**

3. (a) What do you understand by Abelian and cyclic group?

(OR)

(b) Write notes on Born –Oppenheimer approximation.

4. (a) Write notes on group multiplication table.

(OR)

(b) How will you determine force constant?

**PART – C (1×8=8 Marks)**

**III Answer any one of the following**


5. (a) Give detailed account on symmetry element and symmetry operation.


(OR)

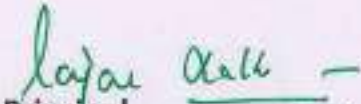
(b) Explain the selection rule for electronic spectra and factors affecting absorption intensity.

\*\*\*\*\*

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V SEMESTER, III INTERNAL TEST – NOVEMBER 2021

III B.Sc. CHEMISTRY

ORGANIC CHEMISTRY III

Duration: 1Hr

Marks : 20 marks

Subject Code: SMCH51

Date : 15.11.2021

**PART – A**

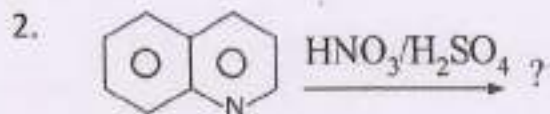
**(2×1=2 Marks)**

**I Choose the Correct Answer**

1. The preferred site of electrophilic substitution of pyridine is

-----.

- (a) C<sub>2</sub>
- (b) C<sub>4</sub>
- (c) C<sub>3</sub>
- (d) C<sub>5</sub>



The product formed in the above reaction is -----.

- (a) 2-Nitro quinoline
- (b) 4-Nitro quinoline
- (c) 3-Nitro quinolone
- (d) 5-Nitro quinoline

**PART – B**

**(2×5=10 Marks)**

**II Answer two of the following**

3. (a) Write Fischer indole synthesis.

**(OR)**

(b) Explain the mechanism of nucleophilic substitution in pyridine.

4. (a) Write notes on Cine-substitution.

**(OR)**

(b) Explain any two reactions of pyrrole in resemblance with phenol.

**PART – C**

**(1×8=8 Marks)**

**III Answer any one of the following**

5. (a) Compare the basic characters of pyrrole, pyridine and piperidine.

**(OR)**

(b) Compare the aromatic characters of furan, pyrrole and thiophene.

\*\*\*\*\*

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V SEMESTER, III INTERNAL TEST – NOVEMBER 2021

III B.SC. CHEMISTRY

ANALYTICAL CHEMISTRY

Duration: 1Hr

Marks : 20 marks

Subject Code: SECH5C

Date : 17.11.2021

**PART – A**

**(2×1=2 Marks)**

**I. Choose the Correct Answer**

1. The term polarography is applied when the polarisable electrode used is -----.

- (a) SCE
- (b) DME
- (c) Pt
- (d) Cu

2. Scattering of light by colloidal particles is called

- (a) Brownian effect
- (b) Tyndall effect
- (c) Electrophoretic effect
- (d) Newton's effect

**PART – B**

**(2×5=10 Marks)**

**II Answer the following**

3. (a) What are the advantage of dropping mercury electrode in polarography. Explain why oxygen should be removed from the test solution before recording the polarogram.

**(OR)**

(b) Write the advantages and limitations of fluorimetry.

4. (a) Explain the principle of coulometric titration with an example?

**(OR)**

(b) Describe the TGA curve for  $\text{CaC}_2\text{O}_4 \cdot \text{H}_2\text{O}$ .

**PART – C**

**(1×8=8 Marks)**

**III Answer any one of the following**

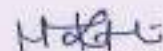
5. (a) Discuss the principle, procedure and application of amperometric titration.

**(OR)**

(b) Discuss the principle, instrumentation and application of nephelometry.

\*\*\*\*\*

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V SEMESTER, III INTERNAL TEST –NOVEMBER 2021

III B.Sc. CHEMISTRY  
POLYMER CHEMISTRY

Duration: 1Hr

Marks : 20 marks

Subject Code: SECH5A

Date : 20.11.2021

## PART – A (2×1=2 Marks)

### I Choose the Correct Answer

1. All commercial processes of polymerisation are -----.

- (a) Solid phase reaction
- (b) Liquid phase reaction
- (c) Gas phase reaction
- (d) All the above

2. Polystyrene is also known as -----.

- (a) Vinyl toluene
- (b) Poly vinyl toluene
- (c) Vinyl benzene
- (d) Poly vinyl benzene

## PART – B (2×5=10 Marks)

### II Answer the following

3. (a) Explain Reinforcing in Polymerisation.

(OR)

(b) Write short note on Compression moulding.

4. (a) Explain calendaring technique of preparing sheets of polymeric materials.

(OR)

(b) Explain the preparation of Nylon-6 and Nylon 6,6.

## PART – C (1×8=8 Marks)

### III Answer any one of the following

5. (a) Explain the preparation and draw the structure of the following polymers:

- (i) HDPE (ii) Polypropylene (iii) PEM (iv) PAN

(OR)

(b) Write the preparation, properties and uses of:

- (i) Epoxy resin (ii) LDPE

\*\*\*\*\*

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**Melapalayam**

**II SEMESTER, II INTERNAL TEST – APRIL 2022**

**I B.Sc. CHEMISTRY**

**ORGANIC CHEMISTRY I**

Duration: 1Hr

Subject Code: CMCH21

Marks : 20 marks

Date : 19.04.2022

**PART – A (2×1=2 Marks)**

**I Choose the Correct Answer**

1. Reactions of vinyl chloride with HCl yields \_\_\_\_\_

- (a)  $\text{ClCH}_2\text{CH}_2\text{Cl}$
- (b)  $\text{CH}_3\text{CHCl}_2$
- (c)  $\text{CH}_2=\text{CCl}_2$
- (d)  $\text{CH}_3\text{CCl}_3$

2. Ozonolysis of an alkene gives only acetaldehyde. The alkene is \_\_\_\_\_

- (a) 1 butene
- (b) 2 butene
- (c) 1 propene
- (d) 1,3 butadiene

**PART – B (2×5=10 Marks)**

**II Answer any two of the following**

3. (a) write briefly on ozonolysis.

**(OR)**

(b) Explain the mechanism of 1,2 and 1,4 additions of 1,3 butadiene.

4.(a) Write the mechanism of E1 and E2 reactions.

**(OR)**

(b) Explain Diel's Alder reaction with examples.

**PART – C (1×8=8 Marks)**

**III Answer any one of the following**

5. (a) Write briefly on

- (i) Addition reaction
- (ii) Substitution reaction
- (iii) Polymerization reaction

**(OR)**

(b) How are vinyl chloride and allyl chloride prepared? Mention their properties.

\*\*\*\*\*

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*J. Vincy*  
(Ms.J.Vincy)  
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For *Anuratha*  
Head of the Department  
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*Lajal Dalki*  
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Melapalayam, Tirumelveli - 627 005

V1 SEMESTER, I INTERNAL TEST - March 2022

II B.Sc. CHEMISTRY

ORGANIC CHEMISTRY-II

Duration: 1Hr

Subject Code: AMCH41

Marks : 20 marks

Date : 16.03.22

**PART - A**

**(2×1=2 Marks)**

## I Choose the Correct Answer

1. Aldol condensation takes place in the presence of

- (a) HCl
- (b) NaOH
- (c) NaCl
- (d) H<sub>2</sub>O

2. Aldehyde and ketones can be distinguished by the test

- (a) Br<sub>2</sub>
- (b) KMnO<sub>4</sub>
- (c) PCl<sub>5</sub>
- (d) Schiff's test.

**PART - B**

**(2×5=10 Marks)**

## II Answer any two of the following

3. (a) What is meant by Knoevenagel reaction?

**(OR)**

(b) Write a note on Wolf-Kishner reduction.

4. (a) Write a note on Reformatsky reaction.

**(OR)**

(b) Give the mechanism of addition of Grignard reagent to carbon compounds

**PART - C**

**(1×8=8 Marks)**

## III Answer any one of the following

5. (a) What is aldol condensation? Explain the Example.

**(OR)**

(b) With the help of suitable example explain

- (i) Meerwein-Ponndorf reduction
- (ii) Wittig reaction

\*\*\*\*\*

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(Mrs. M. Revathi)

QPS

For   
HOD

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IV SEMESTER, II INTERNAL TEST – April 2022

II B.Sc. CHEMISTRY  
CHEMISTRY IN MEDICINE

Duration: 1Hr

Subject Code: ASCH41

Marks : 20 marks

Date : 16.04.2022

**PART – A (2×1=2 Marks)**

**I Choose the Correct Answer**

1. Wilson's disease arises due to \_\_\_\_\_
- (a) deficiency of copper
  - (b) excess of copper
  - (c) deficiency of potassium
  - (d) excess of potassium
2. Tablets of clamoquin can be taken weekly to prevent \_\_\_\_\_
- (a) malaria
  - (b) diphtheria
  - (c) tuberculosis
  - (d) mumps

**PART – B (2×5=10 Marks)**

**II Answer any two of the following**

3. (a) Write the uses of (i) ferrous fumarate (ii) aluminium hydroxide gel

**(OR)**

- (b) Write the important biological role of sodium

4. (a) Mention the causes, preventive measures and treatment of (i) Malaria (ii) Diphtheria

**(OR)**

- (b) Mention the causes, preventive measures and treatment of (i) Filariasis (ii) Mumps

**PART – C (1×8=8 Marks)**

**III Answer any one of the following**

5. (a) Discuss the biological role of potassium and calcium

**(OR)**

- (b) Write notes on the medicinal uses of the following:  
(i) Ferrous sulphate (ii) Alum (iii) Burrows solution  
(iv) ferrous gluconate

\*\*\*\*\*

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*Anuratha*  
(Dr.M.Anuratha)  
QPS

*Anuratha*  
For  
Head of the Department  
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*Rajasekhar*  
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Melapalayam, Tirumelveli - 05

II Semester, II Internal Test – April 2022

II B.Sc Chemistry

Allied Physics-II

Sub code: SAPH21

Date: 21.04.2021

Total: 20 marks

Time: 1 hr

Part -A (2×1=2 marks)

(I) Choose the correct answer:

1. The direction of induced e.m.f is given by-----

- (a) Faraday's law
- (b) Lenz's law
- (c) Fleming's rule
- (d) Lorentz rule

2. Nuclear force is ----- force

- (a) short-range attractive
- (b) long-range attractive
- (c) short-range repulsive
- (d) electrostatic

Part B (2×5=10 marks)

II Answer all the questions, choosing either (a) or (b). Each answer should not exceed 250 words.

3.(a) Derive the relation connecting the three magnetic vectors B, H and M.

(OR)

(b) State Faraday's law of electromagnetic induction.

4.(a) Explain mass defect and nuclear binding energy.

(OR)

(b) Write down the characteristics of nuclear forces.

Part C

(1×8=8 marks)

III Answer the question, choosing either (a) or (b). Answer should not exceed 600 words.

5.(a) Write down the properties of dia, para and ferro magnetic materials, by giving two examples for each.

(OR)

(b) Write in detail about nuclear constituents' nuclear size, charge, mass, spin, nuclear magnetic moment.

\*\*\*\*\*

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Dr. R. Lavanya  
QPS

*Arshad*  
18/4/22  
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*Lajou Kalh*  
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Melapalayam, Tirumelveli - 627 005

V1 SEMESTER, I INTERNAL TEST - March 2022

III B.Sc. CHEMISTRY

INORGANIC CHEMISTRY - III

Duration: 1Hr

Subject Code: SMCH61

Marks : 20 marks

Date : 18.03.22

**PART - A**

**(2×1=2 Marks)**

## I Choose the Correct Answer

1. Tetraamine Platinum(II) tetrachloro platinate(II) is commonly known as-----

- (a) Edmann's salt
- (b) Mangus Green Salt
- (c) Vaska's complex
- (d) Wilkinson's catalyst

2. Pick out the strong field ligand

- (a) Ammonia
- (b) Water
- (c) Fluoride
- (d) None of the above

**PART - B**

**(2×5=10 Marks)**

## II Answer any two of the following

3. (a) Write a note on

- (i) Co-Ordination number
- (ii) Flexidentate Ligand

**(OR)**

(b) Discuss the shapes of 'd' orbitals in detail.

4. (a) Explain:

- (i) Ligand Isomerism
- (ii) Hydrate Isomerism

**(OR)**

(b) Explain the Effective Atomic Number Rule in detail with example.

**PART - C**

**(1×8=8 Marks)**

## III Answer any one of the following

5. (a) Explain the Geometrical Isomerism in square planar complexes with example.

**(OR)**

(b) Explain it with example

- (i) High spin complexes
- (ii) Low spin complexes.

\*\*\*\*\*

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*M.R.*

(Mrs.M.Revathi)

QPS

For *M.R.*  
HOD

*Lajou Akh*  
PRINCIPAL

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MELAPALAYAM.



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**Melapalayam**

VI SEMESTER, II INTERNAL TEST – April 2022

III B.Sc. CHEMISTRY

ORGANIC CHEMISTRY IV

Duration: 1Hr

Subject Code: SMCH62

Marks : 20 marks

Date : 12.04.2022

**PART – A**

**(2×1=2 Marks)**

**I Choose the Correct Answer**

1. Nitrophenols are \_\_\_\_\_ than phenols.

- (a) More basic
- (b) More acidic
- (c) Less acidic
- (d) None

2. o- Xylene on oxidation yields

- (a) Terephthalic acid
- (b) Phthalic anhydride
- (c) Isophthalic acid
- (d) None

**PART – B**

**(2×5=10 Marks)**

**II Answer any two of the following**

3.(a) Write the mechanism of pinacol-pinacolone rearrangement.

**(OR)**

(b) Discuss the mechanism of Perkin reaction.

4. (a) Write the synthesis of resorcinol and cinnamaldehyde.

**(OR)**

(b) Discuss the mechanism of cannizzaro reaction.

**PART – C**

**(1×8=8 Marks)**

**III Answer any one of the following**

5. (a) Write the synthesis of Micheler's ketone and coumarin.

**OR**

(b) How will you prepare salicylaldehyde from phenol? Explain the mechanism.

\*\*\*\*\*

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*Kathija*  
(Mrs. M. Muthu Kathija)

QPS

*For Annathu*  
Head of the Department  
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VI SEMESTER, II INTERNAL TEST – April 2022

III B.Sc. CHEMISTRY  
PHYSICAL CHEMISTRY – IV

Duration: 1Hr

Subject Code: SMCH63

Marks : 20 marks

Date : 18.04.2022

**PART – A (2×1=2 Marks)**

**I Choose the Correct Answer**

1. The colour of phenolphthalein in acid solution is \_\_\_\_\_

- (a) yellow
- (b) pink
- (c) orange
- (d) colourless

2. The III group cations are precipitated by adding \_\_\_\_\_ in presence of \_\_\_\_\_

- (a) HCl, H<sub>2</sub>S
- (b) NH<sub>4</sub>OH, HCl
- (c) H<sub>2</sub>S, HCl
- (d) NH<sub>4</sub>OH, NH<sub>4</sub>Cl

**PART – B (2×5=10 Marks)**

**II Answer any two of the following**

3. (a) What is a buffer? Explain buffer action of acidic and basic buffer?

**(OR)**

(b) Derive an expression for the degree of hydrolysis of the salt of weak acid and weak base

4. (a) Derive Henderson equation.

**(OR)**

(b) Draw and explain the phase diagram of Water system

**PART – C (1×8=8 Marks)**

**III Answer any one of the following**

5. (a) Explain the phase diagram of Pb-Ag system. Using it explain the process of desilverisation of lead

**(OR)**

(b) Explain formation of compound with congruent melting point of Mg-Zn System with suitable diagram

\*\*\*\*\*

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*Anuratha*  
(Dr.M.Anuratha)  
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For *Anuratha*  
Head of the Department  
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VI SEMESTER II INTERNAL TEST – APRIL 2022

III B.Sc. CHEMISTRY  
NANO CHEMISTRY

Duration: 1Hr

Subject Code: SECH6B

Marks : 20 marks

Date : 18.04.2022

**PART – A**

**(2×1=2 Marks)**

**I Choose the Correct Answer**

1. Chemisorption involves \_\_\_\_\_ formation.

- (a) Multilayer
- (b) Monolayer
- (c) both (a) and (b)
- (d) None of these

2. Sonolysis is a process in which molecules undergo chemical reaction under the influence of-----

- (a) Heat
- (b) Ultrasound
- (c) Light
- (d) Pressure

**PART – B**

**(2×5=10 Marks)**

**II Answer any two of the following**

3. (a) Short note on chemical method for the synthesis of nanoceramics

**(OR)**

(b) How will you synthesis nanoparticles by physical vapour deposition method?

4. (a) Discuss the synthesis and properties of fullerenes.

**(OR)**

(b) Write note on types of adsorption

**PART – C**

**(1×8=8 Marks)**

**III Answer any one of the following**

5. (a) What is adsorption isotherm? Derive Langmuir Adsorption

Isotherm and mention its limitations.

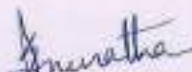
**(OR)**

(b) Explain PLD and PVD methods for the synthesis of nanoparticles.

\*\*\*\*\*

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(Ms. J. Vinny)  
QPS

For   
Head of the Department  
**CHEMISTRY**  
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MELAPALAYAM - 627 005.



# *Annai Hajira Women's College*

*Melapalayam, Tirunelveli-05*

(A Unit of As-Sathiq Educational Society)

(Affiliated to Manonmaniam Sundaranar University)

**DEPARTMENT OF COMPUTER SCIENCE**



**Annai Hajira Women's College**  
**Melapalayam**

**III SEMESTER, III INTERNAL TEST- NOVEMBER-2021**

**II B. Sc – COMPUTER SCIENCE**

**JAVA PROGRAMMING**

**Date: 15.11.2021**

**Time: 1 hr**

**Subject Code: AMCS31**

**Marks: 20**

**Part- A**

**I. Choose the correct answer**

**(2X1=2 Marks)**

1. The ----- statement should be followed by atleast one catch statement.

- a. final
- b. try
- c. throw
- d. finally

2. Applet moves to the ----- state whenever it has to perform some output operations on the screen.

- a. init
- b. start
- c. stop
- d. display

**PART – B (2X5=10 Marks)**

**II. Answer all the questions choosing either (a) or (b)**

3. (a) Write about exceptions.

**(OR)**

(b) Explain about multiple catch statements and finally statement.

4. (a) How to design a webpage with applet tag.

**(OR)**

(b) Describe about Html tags.

**PART –C**

**(1x8=8 marks)**

**III. Answer the questions choosing either (a) or (b)**


5. (a) Explain the life cycle of an applet.

**(OR)**

(b) Define Error and explain its types.

\*\*\*\*\*

  
**(Mrs.I. Faritha Beevi)**  
**QPS**

  
**HOD**  
Head of the Department of  
Computer Science  
Annai Hajira Women's College,  
Melapalayam.

  
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**Melapalayam**

**III SEMESTER, III INTERNAL TEST- NOVEMBER-2021**

**II B.Sc – COMPUTER SCIENCE**  
**Digital Design**

**Date: 16.11.2021**  
**Subject Code: AMCS32**

**Time: 1 hr**  
**Marks: 20**

**Part- A**

**I. Choose the correct answer (2X1=2Marks)**

1. A group of Flip-flops connected to provide either or both functions is called \_\_\_\_\_

- (a) Serial shifting
- (b) parallel register
- (c) Serial out register
- (d) Shift Register

2. Positive Edge Triggered Rsflipflop has \_\_\_\_\_

- (a) Positive Pulse
- (b) Negative pulse
- (c) both
- (d) None

**PART –B (2X5=10 Marks)**

**II. Answer all the questions choosing either (a) or (b)**

3.(a) Define Universal Shift Register.

**(OR)**

(b) Explain 1 of 16 Decoders.

4. (a) Define RS Flip Flop.

**(OR)**

(b) Write about JK master flipflops..

**PART –C**

**(1x8=8 marks)**

**III. Answer the questions choosing either (a) or (b)**

5. (a) Explain Encoders.

**(OR)**

(b) Write Type of Registers.

\*\*\*\*\*

**(Mrs.D.Yasmeen)**

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**Melapalayam**

**III SEMESTER, III INTERNAL TEST- November-2021**

**II B. Sc – COMPUTER SCIENCE**

**Scripting Languages**

**Date: 17.11.2021**

**Time: 1 hr**

**Subject Code: AAC31**

**Marks: 20**

**PART - A**

**I. Choose the correct answer**

**(2 x 1=2 marks)**

1. ----- CSS command is used to detect what type of device the web page is being viewed on.

- (a) @device
- (b) @media
- (c) @target
- (d) none of these

2. HTML5 adds the ----- element to match images and captions together.

- (a) figure
- (b) caption
- (c) figcaption
- (d) img

**PART – B (2 x 5 =10 marks)**

**II. Answer all the questions choosing either (a) or (b)**

3. (a) Write about Color Gradients with example.

**(OR)**

(b) How to create Shadows of elements on the web page?

4. (a) Discuss in detail about the styling images.

**(OR)**

(b) How to embed java script code into HTML5 code?

**PART –C (1 x 8= 8 marks)**

**III. Answer the questions choosing either (a) or (b)**

5. (a) Write about image maps with example.

**(OR)**

(b) Explain the audio and video tag with example.

\*\*\*\*\*

(Mrs.A.Somasundara Vithya )

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# Annai Hajira Women's College

Melapalayam

III Semester, III Internal Test- November-2021

II B.Sc – COMPUTER SCIENCE

INTRODUCTION TO BIG DATA ANALYTICS

Date: 18.11.2021

Time: 1 hr

Subject Code: ASCS31

Marks: 20

### Part- A

I. Choose the correct answer (2 x 1=2 marks)

1. The procedure to organize items of a given collection into groups based on some similar features called as

- a) Regression
- b) Clustering
- c) decision Trees
- d) Association

2. ----- is an example of human generated unstructured data.

- a) YouTube data
- b) Satellite data
- c) Sensor data
- d) Seismic imagery data

### PART – B

(2 x 5 =10 marks)

II. Answer all the questions choosing either (a) or (b)

3. a) Write a short note on Hamming distance

(OR)

b) Which algorithm is best for an analyzing?

4. a) Explain an Unsupervised learning

(OR)

b) What about Machine learning algorithms?

### PART –C

(1 x 8= 8 marks)

III. Answer the questions choosing either (a) or (b)

5. a) Explain Classification and its Algorithm.

(OR)

b) Explain duo big data/Machine learning: examples of use

\*\*\*\*\*

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(K.M.N.Syed Ali Fathima)

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Melapalayam, Tirunelveli - 627 005

III Internal Assessment Test November 2021

II B.Sc., Computer Science

Basic Physics I

Subject Code : ANPH31

Date : 19.11.2021

Time Duration: 1 hour

Total marks : 20

## Part - A (2 × 1 = 2 marks)

I Choose the correct answer:

1. The rainbows are visible only when the altitude of the sun is

- (a) Less than  $40^\circ$
- (b) Less than  $42^\circ$
- (c) Greater than  $42^\circ$
- (d) Not equal to  $45^\circ$

2. Ohm's law is -----

- (a)  $I = VR$
- (b)  $I = V - R$
- (c)  $I = V/R$
- (d)  $I = V + R$

## Part - B (5 × 2 = 10 marks)

II Answer the questions by choosing either (a) or (b)

1. (a) With neat diagram explain convex and concave lens.

(OR)

(b) Write about the formation of rainbow.

2. (a) Derive the expression for electrical energy and power.

(OR)

(b) Write about double refraction with neat diagram.

## Part - C (8 × 1 = 8 marks)

3. (a) Explain in detail about interference, diffraction and polarization.

(OR)

(b) What is a resistance? Describe the types of resistance.

\*\*\*\*\*

NM  
QPS [Dr. N. Sideri]

Aysha  
HOD

Lajal Aam  
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# Annai Hajira Women's College

MELAPALAYAM

I SEMESTER, II INTERNAL TEST- NOVEMBER-2021

I B.Sc – COMPUTER SCIENCE

PROGRAMMING IN C

Date: 17.11.2021

Time: 1 hr

Subject Code: BMCS11

Marks: 20

## Part- A

I. Choose the correct answer (2X 1=2Marks)

1. Conditional operator is also called as \_\_\_\_\_.

- a) ternary operator
- b) logical operator
- c) relational operator
- d) none of these

2. An array is also called as \_\_\_\_\_.

- a) 1D
- b) subscripted variables
- c) 2D
- d) none of these

## PART – B (2 X 5 =10 marks)

II. Answer all the questions choosing either (a) or (b)

3. (a) Write down the differences between while and do...while.

(OR)

(b) Explain switch statement with example.

4. (a) Define array. Explain how you will initialize one dimensional array.

(OR)

(b) Explain reading strings from terminal.

## PART – C

(1 x 8= 8 marks)

III. Answer the questions choosing either (a) or (b):

5(a) Explain the different types of if statement with example.

(Or)

(b) Explain string handling functions with example.

\*\*\*\*\*

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MELAPALAYAM - 627 002



**Annai Hajira Women's College**  
**Melapalayam**

**I SEMESTER, II INTERNAL TEST- NOVEMBER-2021**

**I B.Sc – COMPUTER SCIENCE**

**Discrete Mathematics**

Date:19.11.2021

Time: 1 hr

Subject Code: BACS11

Marks: 20

**Part- A**

**I. Choose the correct answer**

**(2X1=2Marks)**

1.  $P \rightarrow Q$  is false then  $P=?$  and  $Q=?$

- (a) T,F
- (b) F,T
- (c) T,T
- (d) F,F

2. The composition \_\_\_\_\_ is called the left composition of  $g$  with  $f$ .

- (a)  $f \circ g$
- (b)  $g \circ f$
- (c)  $f \circ f$
- (d)  $g \circ g$

**PART – B (2X5=10 Marks)**

**II. Answer all the questions choosing either (a) or (b)**

3.(a) Let  $X=\{a,b,c\}$  and  $f=\{(a,b),(b,a),(c,c)\}$ ,  $f:x \rightarrow x$

find i)  $f^1$  ii)  $f^2$  iii)  $f^3$  iv)  $f^4$

**(OR)**

(b) Let  $f$  be the function from the set of integers such that  $f(x) = x+1$ , Is  $f$  invertible, and if so, find it's inverse.

4. (a) Verify the proposition  $p \vee \sim(p \wedge q)$  is tautology.

**(OR)**

(b) Write about Basic set of logical operators.

**PART –C**

**(1x8=8 marks)**

**III. Answer the questions choosing either (a) or (b)**

5. (a) Explain about the classification of functions.

**(OR)**

(b) Determine the CNF and DNF of  $\sim(p \rightarrow r) \wedge (p \leftrightarrow q)$

\*\*\*\*\*

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**I SEMESTER, II INTERNAL TEST- NOVEMBER-2021**

**I B. Sc – COMPUTER SCIENCE**

**PROFESSIONAL ENGLISH FOR PHYSICAL SCIENCES - I**

**Date: 19.11. 2021**

**Time: 1 hr**

**Subject Code: BPP511**

**Marks: 20**

**Part- A**

**I. Choose the correct answer (2X 1=2Marks)**

1. The word 'definition' originates from the word -----, which states what exactly the thing is.

- a. define
- b. defines
- c. defining
- d. none of these

2. An----- is an ancient device that is used for arithmetic calculations.

- a. calculator
- b. abacus
- c. computer
- d. adder

**PART – B (2 X5 =10 marks)**

**II. Answer all the questions choosing either (a) or (b)**

3. a) Fill in the blanks with suitable words from the choices given in the bracket. (Gold, Potassium Chlorate, 1805, 5<sup>th</sup> century, other metals)

1. Wooden sticks coated with sulphur) the way as a catalyst for fire in .....

2. Chancel opted wooden stick with than phosphorus.

3. Hennig Brandt dreamt of ..... from other ..... in his lifetime.

4. Jean Chancel was instrumental in creating the first match in Paris in .....

**(OR)**

(b) Fill in the gaps with prepositions from the bracket:

(By, for, of, in, to)

The colour of the light (corresponding to the energy of the photons) is determined by the energy required electrons ..... cross the band gap of the semiconductor. White light is obtained ..... Using multiple semiconductors or a layer..... light-emitting phosphor on the semiconductor device. Appearing as practical electronic components in 1962, the earliest LEDs emitted low- intensity infrared (IR) light. Infrared LEDs are used ..... remote-control circuits, such as those used with a wide variety of consumer electronics.

4. (a) Think of things people do with the matches and lighters. Use these verbs:

- a. strike the match
- b. generate heat
- c. set fire
- d. ignite the stove
- e. light the candle

**(OR)**

(b) Say whether following sentences are true or false.

- a. William Dickson was the descendant of Leonard Eugene Dickson.
- b. G H Hardy wrote the "History of the Theory of Numbers".
- c. G H Hardy was of the view that the theory of numbers could not be employed for any practical and honorable purpose.
- d. William Dickson, one of the most productive of all mathematicians, belonged to the 18th century.
- e. Gauss said that human sufferings can be relieved through physiology and even chemistry.



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**I SEMESTER, II INTERNAL TEST- November-2021**

**I B. Sc Computer Science**  
**ENVIRONMENTAL STUDIES**

**Date: 20.11. 2021**

**Time: 1 hr**

**Subject Code: BEVS11**

**Marks: 20**

**PART- A**

**I. Choose the correct answer (2X 1=2Marks)**

1. If succession starts from water bodies, it is called -----  
succession
- a) hydrarch
  - b) Xerarch
  - c) hydrosere
  - d) xerosere

2. The presence of variety of animals and plant within and among ecosystems constitutes ----- bio-diversity.

- a) Genetic diversity
- b) Ecosystem
- c) Species diversity
- d) All of the above

**PART – B (2 X5 =10 marks)**

**II. Answer all the questions choosing either (a) or (b)**

3. (a) Give a brief account of food chain and food web.

**(OR)**

(b) what are the values of biodiversity?

4. (a) Discuss the various biotic and abiotic components of pond ecosystem.

**(OR)**

(b) Discuss the various kinds of bio-diversities

**PART –C**

**(1 x 8= 8 marks)**

**III. Answer the questions choosing either (a) or (b):**

5. (a) Discuss the desert and forest ecosystem.

**(OR)**

(b) Explain in detail the conservation of biodiversity

\*\*\*\*\*

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**V SEMESTER, III INTERNAL TEST - NOVEMBER-2021**

**III B.Sc – COMPUTER SCIENCE**

**Data Communication & Computer Network**

**Date: 20.11.2021**

**Time: 1 hr**

**Subject Code: SMCS52**

**Marks: 20**

**Part- A**

**I. Choose the correct answer (2X1=2Marks)**

1.1. Multiple errors in a data block are referred to as \_\_\_\_\_

- a) Content error
- b) Burst error
- c) Single error
- d) None of these

2. \_\_\_\_\_ is the highest layer and provides services to the user of the OSI.

- a) Physical
- b) Data Link
- c) Application
- d) Presentation

**PART – B (2X5=10 Marks)**

**II. Answer all the questions choosing either (a) or (b)**

3. a) Define types of errors.

**(OR)**

b) Explain Linear Block of codes

4. a) Define Coaxial Cable

**(OR)**

b) Write about Wavelength division multiplexing

**PART – C**

**(1x8=8 marks)**

**III. Answer the questions choosing either (a) or (b)**

5. a) Explain in detail about Fibre optic cable.

**(OR)**

b) Write about Digital subscriber line.

\*\*\*\*\*

  
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&   
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**V SEMESTER, III INTERNAL TEST - November-2021**

**III B.Sc – COMPUTER SCIENCE**

**Dot NET Technologies**

**Date: 17.11.2021**

**Time: 1 hr**

**Subject Code: SMCS53**

**Marks: 20**

**PART - A**

**I. Choose the correct answer (2 x 1=2 marks)**

1. \_\_\_\_\_ describes how types are declared, used, and managed in the runtime.

- (a) Common Language Specifications (CLS)
- (b) Common Language Runtime (CLR)
- (c) Common Type System (CTS)
- (d) Framework Class Library (FCL)

2. By using which of the following web server control data can be retrieved from a relational database?

- (a) Object Data Source
- (b) Sql Data Source
- (c) Access Data Source
- (d) Xml Data Source

**PART – B (2 x 5 =10 marks)**

**II. Answer all the questions choosing either (a) or (b)**

3.(a) Write a short note on Managed Code.

**(OR)**

(b) Explain the COM+ Component Services.

4. a) Write about the Overview of Web Services and Web Service Description Language.

**(OR)**

(b) Explain the Web Services Discovery in detail.

**PART –C**

**(1 x 8= 8 marks)**

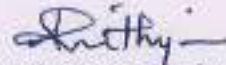
**III. Answer the questions choosing either (a) or (b)**

5. (a) Discuss about the WebService Wire Formats in detail.

**(OR)**

(b) Explain the ADO.NET Programming Objects and Architecture.

\*\*\*\*\*

  
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V SEMESTER, III INTERNAL TEST - NOVEMBER-2021

III B.Sc – COMPUTER SCIENCE  
CLOUD COMPUTING

Date: 18.11.2021

Time: 1 Hr

Subject Code: SECS5C

Marks: 20

**Part- A**

I. Choose the correct answer (2X1=2Marks)

1. \_\_\_\_\_ instant messaging services

- a. ICQ
- b. Windows live messenger
- c. Google talk
- d. All of the above

2. Typepad is an example of \_\_\_\_\_

- a. Messenger
- b. Blogs
- c. Communication Tool
- d. Teamspace

**PART – B (2X5=10 Marks)**

II. Answer all the questions choosing either (a) or (b)

3. (a) Define Collaborating on Databases.

(OR)

(b) Explain Web based spreadsheets.

4. (a) Define Social network and groupware.

(OR)

(b) Write about Blogs and Wikis.

**PART –C**

**(1x8=8 marks)**

III. Answer the questions choosing either (a) or (b)

5. (a) Explain Web based communication tools.

(OR)

(b) Write about Collaborating on Word processing.

\*\*\*\*\*

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**V SEMESTER, III INTERNAL TEST - November-2021**

**III B. Sc – COMPUTER SCIENCE**

**Personality Development**

**Date: 19.11.2021**

**Time: 1 hr**

**Subject Code: SCSB5A**

**Marks: 20**

**(Skill Based Common)**

**PART - A**

**I. Choose the correct answer (2 x 1=2 marks)**

1. \_\_\_\_\_ language is a linguistic barrier of communication.

(a) Understandable language

(b) Mother's language

(c) Acceptable language

(d) Technical language

2. \_\_\_\_\_ skills used to interact politely in social situations.

(a) Social graces

(b) Social curses

(c) Social evils

(d) Social pitfalls

**PART - B (2 x 5=10 marks)**

**II. Answer all the questions choosing either (a) or (b)**

3. (a) List out the communication symbols.

**(OR)**

(b) What are the barriers in communication?

4. (a) What are the question commonly asked in interview?

**(OR)**

(b) Explain the principle of dress code for an interview.

**PART - C**

**(1 x 8= 8 marks)**

**III. Answer the questions choosing either (a) or (b)**

5. (a) Narrate the meaning and type of transactional analysis.

**(OR)**

(b) Enumerate the Do's and Don'ts of table etiquettes.

\*\*\*\*\*

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Melapalayam, Tirunelveli - 627 005

II SEMESTER, II INTERNAL TEST- APRIL -2022

I B.Sc. - COMPUTER SCIENCE

VALUE BASED EDUCATION

Date:13.04.2022

Time: 1 hr

Subject Code: CVBE21

Marks: 20

PART- A

(2X 1=2Marks)

I. Choose the correct answer

1. Women's issues were raised for the first time -----

- a. 19th
- b. 18<sup>th</sup>
- c. 17<sup>th</sup>
- d. 20<sup>th</sup>

2. A good citizen must have-----

- a. Patriotism
- b. Good education
- c. Tolerance
- d. All the above

PART - B (2 X 5 =10 marks)

II. Answer all the questions choosing either (a) or (b)

3. (a). Explain the dowry problems encountered by Indian women.

(OR)

(b). What are the causes of Childhood death?

4. (a). How are child rights guaranteed by Indian constitution?

(OR)

(b). Explain the need for human rights.

PART-C

(1x8=8)

III ANSWER THE FOLLOWING

5. (a). What are the terms of the International Covenant on civil and political right?

(OR)

(b). Explain the functions of UNICEF.

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(D. Yasmeen)

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# Annai Hajira Women's College

Melapalayam, Tirumelveli - 627 005

II SEMESTER, II INTERNAL TEST - APRIL-2022

I B.Sc - COMPUTER SCIENCE

PROFESSIONAL ENGLISH FOR PHYSICAL SCIENCES - II

Date: 18.04.2022

Time: 1 hr

Subject Code: CPPS21

Marks: 20

## Part- A

I. Choose the correct answer (2X1=2 Marks)

1. \_\_\_\_\_ is a virtual Assistant used in Microsoft devices.

- a. Siri
- b. Cortana
- c. Alexa
- d. Chatbot

2. A \_\_\_\_\_ is a device that converts energy from one form into another.

- a. transducer
- b. light year
- c. microphone
- d. conductor

## PART - B (2X5=10 Marks)

II. Answer all the questions choosing either (a) or (b)

3. a) How to prepare an effective PPT?

(OR)

b) Say whether the following statements are true or false.

- i. Wireless headphones connect to the phone using Bluetooth.
- ii. Electricity or any other source of power is not required for Wireless headphones.
- iii. There is a possibility to reduce noise while using headphones.
- iv. Noise is normally created by the wireless headphones.
- v. Headphones use the same kind of circuits used in normal speakers.

4. a) Punctuate the following.

- i) oh no the bus has gone
- ii) next wednesday my sister mita is going to join the state bank of India
- iii) wasnt time born on the 26th of january 1989

(OR)

b) Imagine you are a manager of a leading bank. You wish to send a circular to your staff regarding internet security. List details of Internet Banking Security features you'd like to add in a typical circular.

## PART - C

(1x8=8 Marks)

III. Answer the questions choosing either (a) or (b)

5.a) Define the following terms each in a sentence.

- 1. Siri 2. Cortana 3. Alexa 4. Chat bot 5. Turing Test

(OR)

b) Write a Paraphrase for the paragraph given below.

In The Sopranos, the mob is besieged as much by inner infidelity as it is by the federal government. Early in the series, the greatest threat to Tony's Family is his own biological family. One of his closest associates turns witness for the FBI; his mother colludes with his uncle to contract a hit on Tony, and his kids click through Web sites that track the federal crackdown in Tony's gangland.

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II SEMESTER, INTERNAL TEST- APRIL-2022

I B. Sc - COMPUTER SCIENCE

OBJECT ORIENTED PROGRAMMING IN C++

Date: 10.04.2022

Time: 1 hr

Subject Code: CMCS21

Marks: 20

## Part- A

I. Choose the correct answer

(2X 1 = 2 Marks)

1. A special member function called -----which enables an object to initialize when it is created.

- a. destructor
- b. constructor
- c. copy constructor
- d. all the above

2. A constructor that accepts no parameters is called -----

- a. default constructor
- b. copy constructor
- c. parameterized constructor
- d. none

## PART - B (2 X 5 = 10 marks)

II. Answer all the questions choosing either (a) or (b)

3. a. Explain parameterized constructor with example.

(OR)

b. Explain copy constructor with example.

4. a) Explain constructors with default arguments with example.

(OR)

b) Define destructors. Explain it with an example.

## PART -C

(1 x 8 = 8 marks)

III. Answer the questions choosing either (a) or (b)

5. a) Define constructor. Discuss about constructor overloading with example.

(OR)

b) Explain dynamic constructors with example.

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# Annai Hajira Women's College

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IV SEMESTER, II INTERNAL TEST- APRIL-2022

II B. Sc - COMPUTER SCIENCE

DATA STRUCTURES

Date: 11.04.2022

Subject Code: AMCS41

Time: 1 hr

Marks: 20

Part- A

(2X1=2 Marks)

I. Choose the correct answer

1. Stack is also called as -----,

- a) FIFO
- b) LIFO
- c) FOLI
- d) FILO

2. A \_\_\_\_\_ is a singly linked list that is comprised of one or more nodes.

- a) Array
- b) Tree
- c) Chain
- d) List

Part- B

(2X5=10 Marks)

II. Answer all the questions choosing either (a) or (b)

3. (a) Define Stack and its algorithm.

(OR)

(b) Explain about Queues.

4. (a) Write about Doubly linked list.

(OR)

(b) Explain about the linked stacks and queues.

Part -C

(1x8=8 marks)

III. Answer the questions choosing either (a) or (b)

5. (a) Explain in detail about the evaluation of expressions.

(OR)

(b) Write about the polynomial representation of a linked list.

\*\*\*\*\*

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# Annai Hajira Women's College

Melapalayam, Tirumelveli 627 005

IV SEMESTER, II INTERNAL TEST- April-2022

II B.Sc – COMPUTER SCIENCE

Computer Architecture

Date: 13.04.2022

Time: 1 hr

Subject Code: AMCS42

Marks: 20

## PART - A

I. Choose the correct answer (2 x 1=2 marks)

1. In which mode, the address field of the instruction gives the address where the effective address is stored in memory?

- (a) Direct address mode
- (b) Indirect address mode
- (c) Indexed addressing mode
- (d) Register mode

2. For signed integers, two complement additions is used to perform -----

- (a) Division
- (b) Multiplication
- (c) Subtraction
- (d) Addition

## PART – B (2 x 5 =10 marks)

II. Answer all the questions choosing either (a) or (b)

3. a) Explain stack operations with its micro-operations.

(OR)

b) Explain different types of addressing modes.

4. a) What are the basic data manipulation instructions? Explain.

(OR)

b) Explain multiplication algorithm with an example.

PART –C

(1 x 8= 8 marks)

III. Answer the questions choosing either (a) or (b)

5. a) Discuss in detail about program control.

(OR)

b) Describe the hardware implementation and flowchart for signed-magnitude addition and subtraction.

\*\*\*\*\*

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IV SEMESTER, II INTERNAL TEST- APRIL-2022

II B.Sc - COMPUTER SCIENCE

MULTIMEDIA APPLICATIONS

Date: 16.04.2022

Time: 1 hr

Subject Code: ASCS41

Marks: 20

## Part- A

I. Choose the correct answer (2X 1=2Marks)

1. Which of the following is a term that applies to the spacing between characters of text?

- a. Kerning
- b. Leading
- c. Tracing
- d. Dithering

2. A 8 bit GIF image is capable of representing how many different colors?

- a. 8
- b. 16
- c. 256
- d. 65536

## PART - B (2X5=10 Marks)

II. Answer all the questions choosing either (a) or (b)

3. a) Discuss about hypermedia and hypertext.

(OR)

b) Explain the differences between Portrait Vs Landscape.

4. a) How will you make still images?

(OR)

b) Explain the differences between Vector Drawn Objects Vs Bitmaps.

## PART - C

(1x8= 8 Marks)

III. Answer the questions choosing either (a) or (b)

5. a) Discuss in detail about Font Editing and Design Tools.

(OR)

b) What is Vector Drawing? Explain how it works.

\*\*\*\*\*

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## Annai Hajira Women's College

Melapalayam, Tirunelveli - 05

IV Semester, II Internal Test - April 2022

II B.Sc Computer Science

Basic Physics - II

Sub code: SNPH4A

Total: 20 marks

Date:19.04.2022

Time: 1 hr

Part-A(2x1=2 marks)

I Choose the correct answer:

1. In laser, raising the number of atoms to higher energy state is called

- (a) Pumping
- (b) Spontaneous absorption
- (c) Excitation
- (d) Amplification

2. In which of the following, the magnetic field can't penetrate through-----

- (a) Conductors
- (b) Insulators
- (c) Type I superconductors
- (d) Type II superconductors

Part B (2x5=10 marks)

II Answer all the questions,choosing either (a) or (b). Each answer should not exceed 250 words.

3.(a) Distinguish between crystalline and amorphous materials.

(OR)

(b) Classify dia, para and ferromagnetic materials with necessary examples.

4. (a) What is population inversion? Explain about it.

(OR)

(b) Discuss briefly about the applications of laser.

Part C

(1x8=8 marks)

III Answer the question,choosing either (a) or (b). Answer should not exceed 600 words.

5. (a) Write in detail about (i) conductors (ii) insulators (iii) superconductors.

(OR)

(b) Describe the construction and working of CO<sub>2</sub> laser.

\*\*\*\*\*

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# Annai Hajira Women's College

Melapalayam, Tirunelveli 627 005

VI SEMESTER, II INTERNAL TEST- April-2022

III B.Sc – COMPUTER SCIENCE

OPERATING SYSTEMS

Date: 11.04.2022

Time: 1 hr

Subject Code: SMCS61

Marks: 20

## PART – A

I. Choose the correct answer (2 x 1=2 marks)

1. If Process P1 is executing in its critical section, then no other processes can be executing in their critical sections called as \_\_\_\_\_

- (a) Segment
- (b) Block Box
- (c) Mutual Exclusion
- (d) Mutual Inclusion

2. A \_\_\_\_\_ is one that can affect or be affected by other processes executing in the system.

- (a) Cooperating process
- (b) Race condition
- (c) Synchronization
- (d) Parallel process

## PART – B (2 x 5 =10 marks)

II. Answer all the questions choosing either (a) or (b)

3.a) Mention the basic concept of process scheduling.

(OR)

b) Write about algorithm evaluation methods.

4. a) Explain the critical section problem.

(OR)

b) What are the characterizations of deadlock?

PART –C

(1 x 8= 8 marks)

III. Answer the questions choosing either (a) or (b)

5. a) Explain the various types of CPU Scheduling Algorithms.

(OR)

b) Write briefly about methods for handling deadlock.

\*\*\*\*\*

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VI SEMESTER, II INTERNAL TEST - April - 2022

III B.Sc. - COMPUTER SCIENCE

COMPUTER GRAPHICS AND VISUALIZATION

Date: 13.04.2022

Time: 1 hr

Subject Code: SMCS62

Marks: 20

## PART - A (2X 1=2Marks)

### I. Choose the correct answer

1. The mirror image for a two dimensional reflection is relative to an \_\_\_\_\_.

- a. axis of reflection
- b. angle of reflection
- c. point reflection
- d. view reflection

2. The region consist which an object is to clipped is called as \_\_\_\_\_.

- a. Clipping
- b. clipping algorithm
- c. Clip window
- d. clip viewport

## PART - B (2 X 5 = 10 marks)

### II. Answer all the questions choosing either (a) or (b)

3. (a) Explain Basic transformations in 2D viewing.

(OR)

(b) Explain two dimensional viewing functions

4. (a) Write about the 2D viewing pipeline.

(OR)

(b) Explain polygon clipping in brief.

## PART - C

(1x8=8)

### III. ANSWER THE FOLLOWING

5. (a) Explain line clipping in detail.

(OR)

(b) Explain - window to viewport coordinate transformation.

\*\*\*\*\*

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# Annai Hajira Women's College

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VI SEMESTER, II INTERNAL TEST- APRIL-2022

III B. Sc – COMPUTER SCIENCE

DATA WAREHOUSING AND DATA MINING

Date: 19.04.2022

Subject Code: SMCS63

Time: 1 hr

Marks: 20

(2X1=2 Marks)

Part- A

I. Choose the correct answer

1. \_\_\_\_\_ is a database reporting tool.

- a) Cognos Impromptu
- b) Forte
- c) Power Builder
- d) Cactus

2. The data structure used in MOLAP is \_\_\_\_\_.

- a) Array
- b) Tree
- c) Stack
- d) Queue

Part- B

(2X5=10 Marks)

II. Answer all the questions choosing either (a) or (b)

3. (a) Explain about the categories of tool.

(OR)

(b) Discuss about the Cognos Impromptu.

4. (a) Write about OLAP.

(OR)

(b) Explain about the OLAP tools and Internet.

Part -C

(1x8=8 marks)

III. Answer the questions choosing either (a) or (b)

5. (a) Explain the classification of OLAP tools.

(OR)

(b) Write about the Power Builder.

\*\*\*\*\*

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VI SEMESTER, II INTERNAL TEST- April -2022

III B.Sc. – COMPUTER SCIENCE

INTERNET OF THINGS

Date: 16.04.2022

Time: 1 hr

Subject Code: SECS6A

Marks: 20

PART- A

(2X 1=2Marks)

I. Choose the correct answer

1. What is the real example of a smart grid device in IOT?

- a) Mobile phone
- b) Television
- c) Smart Speaker
- d) Smart Meters

2. PWM stands for:

- a) Pulse Width Modulation
- b) Pulse Width Mode
- c) Pulse with Modulation
- d) None of the above

PART – B (2 X5 =10 marks)

II. Answer all the questions choosing either (a) or (b)

3. (a). Explain the information-driven global value chain.

(OR)

(b). Explain the functional layers and capabilities of an IOT solution

4. (a). Explain design principles and needed capabilities

(OR)

(b). Explain gateways and its additional tasks.

PART-C

(1x8=8)

III. ANSWER THE FOLLOWING

5. (a). Explain the IOT value chains

(OR)

(b). Explain about an IOT architecture outline.

\*\*\*\*\*

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**B.COM.**



# Annai Hajira Women's College

Melapalayam, Tirumelveli - 05

I SEMESTER, III INTERNAL TEST - DECEMBER 2021

I B.COM BATCH I

**BUSINESS ORGANISATION AND MANAGEMENT**

Subject Code: CMCO12

Duration: 1 Hr

Date: 16.12.2021

Marks: 20

**PART A**

(2 × 1 = 2 marks)

I. Choose the correct answer

1. Planning is a \_\_\_\_\_

- (a) looking back
- (b) forward looking
- (c) departmentation
- (d) a static process

2. 'Brain Storming' is associated with \_\_\_\_\_

- (a) Planning
- (b) Decision making
- (c) Directing
- (d) Supervision

**PART B (2 × 5 = 10marks)**

Answer ALL the questions either (a) or (b)

3. (a) What are the characteristics of good plan?

(OR)

(b) Discuss the factors involved in decision making.

4. (a) What are the principles of delegation?

(OR)

(b) Explain the merits and demerits of centralization.

**PART C(1 × 8 = 8)**

Answer ALL the questions either (a) or (b)

5. (a) What are the step involved in planning process? Explain.

(OR)

(b) Define decision making. What are the various types of decisions?

\*\*\*\*\*

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# Annai Hajira Women's College

Melapalayam, Tirunelveli - 05

I SEMESTER, III INTERNAL TEST - DECEMBER 2021

I B.COM BATCH I

FINANCIAL ACCOUNTING-I

Date: 15.12.2021

Duration : 1 Hr

Subject Code: CMCO11

Marks: 20

Part- A (2X1=2marks)

Choose the correct answer

1. Income received in advance is -----

- a) an asset
- b) a liability
- c) a loss
- d) a profit

2. Bank Reconciliation Statement is prepared by-----

- a) Banker
- b) Auditor
- c) Customer
- d) Accountant

PART -B

(2 X5 =10 marks)

3. Answer all the questions choosing either (a) or (b)

(a) From the following prepare manufacturing account for the year ended 31.12.2020:

Raw materials (1.1.2020)	Rs. 12,000
Work-in-progress (1.1.2020)	Rs. 8,400
Purchase of raw materials	Rs. 90,000
Carriage inwards	Rs. 10,000
Direct wages	Rs.20,000
Indirect wages	Rs. 10,000
Depreciation on factory plant	Rs. 8,000
Depreciation on factory furniture	Rs. 2,400
Factor power	Rs. 6,000
Repairs to factor assets	Rs. 1,000
Raw materials (31.12.2020)	Rs. 16,000
Work-in-progress (31.12.2020)	Rs. 10,000

(OR)

a) Write the reasons for difference in cash book and pass book balances.

4.(a). A fire occurred on 15<sup>th</sup> March 2015 in the premises of a company. From the following find out the amount of claim to be lodged in case of the loss of stock which was insured.

Stock (1.1.2015)	Rs.2,00,000
Purchases from 1.1.2015 to 15.3.2015	Rs. 6,00,000
Wages	Rs. 1,50,000
Manufacturing expenses	Rs. 50,000
Sales from 1.1.2015 to 15.3.2015	Rs. 10,00,000

The gross profit is 20% . The stock salvaged was Rs.20,000.

(OR)

(b) David started a business with capital of Rs. 20,000 on 1<sup>st</sup> January 2020. During the year he has withdrawn Rs.500 per month for his personal expenses. Also David has brought additional capital of Rs.5,000 into the business. His capital at the end of the year 31<sup>st</sup> December 2020 was Rs.36,000. Ascertain the profit or loss for the year.

PART -C

(1 x 8=8 marks)

III. Answer all the questions choosing either (a) or (b)

5.(a). A firm purchased a lease for 5 years for Rs. 15,000. It decides to write off depreciation on the annuity method, assuming the rate of interest at 5% p.a. The annuity tables show that sum of Rs.3464.62 should be written off every year. Show Lease A/c of the 5 years.

(OR)

(b). From the following trial balance prepare Trading, Profit & Loss A/c and Balance sheet as on 31.12.2020.

Particulars	Debit Rs.	Credit Rs.
Capital		2,00,000
Drawings	35,000	
Cash in hand	60,000	
Cash at bank	20,000	
Wages	10,000	
Purchases	40,000	
Stock (1.1.2020)	60,000	
Buildings	1,00,000	

Sundry Debtors	30,000	
Bills Receivable	25,000	
Rent	5,000	
General expenses	15,000	
Furniture	1,00,000	
Bank overdraft		1,10,000
Sundry Creditors		50,000
Bank loan		1,00,000
Bills payable		40,000
<b>Total</b>	<b>5,00,000</b>	<b>5,00,000</b>

Other information:

1. Closing stock Rs. 50,000 valued as on 31.12.2020.
2. Outstanding wages Rs. 500.
3. Interest on capital at 6% to be provided.
4. Depreciate Building by 10%.
5. Prepaid rent Rs. 1,000.

\*\*\*\*\*

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I SEMESTER, II INTERNAL TEST - NOVEMBER 2021

I B.Com - Batch II

## BUSINESS ORGANISATION AND MANAGEMENT

Duration: 1 Hr.

Subject Code:BMCO12

Marks: 20

Date:18.11.2021

### Part- A

I. Choose the correct answer (2 X 1 =2 marks)

1. ----- is the urge, need, wants or desire that induces to work.

(a) Leadership

(b) Motive

(c) Organising

(d) None of the above

2. Hawthorne experiment was contributed by-----

(a) Peter.F.Drucker

(b) Henry Fayol

(c) George Elton Mayo

(d) F.W.Taylor

### PART -B (2 X5 =10 marks)

II. Answer the following question, choosing either (a) or (b)

3. (a) Explain in detail Maslow's hierarchy need theory.

(OR)

(b) State the elements of communication process. Explain

4. (a) Describe the various steps in control.

(OR)

(b) Is management a science or an art?

PART -C (1 x8=8 marks)

III. Answer the questions, choosing either (a) or (b)

5. (a) Explain in detail the various functions of Management.

(OR)

(b) Describe the various types of leadership styles.

\*\*\*\*\*

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I SEMESTER, II INTERNAL TEST - NOVEMBER 2021

I B.Com Batch II

Professional English for Commerce & Management - I

Duration: 1 Hr.

Sub. Code: BPCM11

Marks : 20

Date: 19.11.2021

**PART - A**

(7x0.5= 3.5)

I Fill in the blanks with suitable words.

Persuading, e-marketing, enquiries, company, retaining, satisfaction, customer service, relationship.

1. ----- is a support system of a company in serving its
2. customers to resolve their -----
3. -----one's customer
4. ----- new customers
5. Customer -----
6. Improves the credibility of the -----
7. Strengthen the customer-company-----

**PART - B**

(7x0.5= 3.5)

II Identify one-word substitutes for the following. Use the following clues:

(EAL, PERSEVERA, REPID, USTRIOUS, IMMER, CONFI, DA)

8. Taking risks - \_\_\_\_\_ R E
9. Valuing criticism- \_\_\_\_\_ D E N C E
10. Never giving up- \_\_\_\_\_ N C E
11. Burning passion- Z \_\_\_\_\_
12. Working like hell- I N D \_\_\_\_\_
13. Living an adventure - \_\_\_\_\_ R E P I D
14. Staying focused - \_\_\_\_\_ S E D

**PART C**

(2 x 3 = 6)

II. Answer ALL the questions either (a) or (b)

15(a) State the benefits of Digital Marketing.

(OR)

(b) Explain the Ethics of Marketing

16 (a) Describe the Features of online Advertisement

(OR)

(b) Discuss the Mobile App in e-marketing

**PART D**

(1 x 7 = 7)

III. Answer ALL the questions either (a) or (b)

17 (a) Discuss the various steps relating to Presentation of a topic.

(OR)

(b) Write short Note on:

(i) Time Management

(ii) Customer Service

(iii) Work from home is Bliss

(iv) Outcomes of Demonetization

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I B COM - BATCH II

I SEMESTER, II INTERNAL TEST-NOVEMBER 2021

BUSINESS ECONOMICS

Duration: 1 Hr.

Sub. Code: BACO11

Marks : 20

Date: 20.11.2021

PART - A (2 × 1 = 2)

I. Choose the correct answer

1. The additional cost incurred to produce an additional unit of output is ----cost

- (a) Marginal
- (b) Fixed
- (c) Variable
- (d) Opportunity

2. ----- cost is also known as alternative cost.

- (a) Alternative Cost
- (b) Actual Cost
- (c) Variable Cost
- (d) Expected Cost

PART B (2 × 5 = 10)

II. Answer ALL the questions either (a) or (b)

3. (a) Write short notes about opportunity cost.

(OR)

(b) Define Supply and causes of changes in supply.

4. (a) What are the factors determine the supply?

(OR)

(b) Define utility. Explain various forms of utility.

PART C (1 × 8 = 8)

III. Answer ALL the questions either (a) or (b)

5 (a) Examine basic economic tools in business economics

(OR)

(b) Define law of diminishing marginal utility. Explain it with illustration and diagram.

\*\*\*\*\*

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I SEMESTER, II INTERNAL TEST - NOVEMBER 2021

I B.Com BATCH II

FINANCIAL ACCOUNTING - I

Duration: 1 Hr.

Subject Code: BMCO11

Marks: 20

Date: 22.11.2021

Part-A

(2 X 1 = 2 marks)

I. Choose the correct answer

1. Transfer of money or money's worth from one party to another is called-----

- (a) Journal (b) transaction  
(c) ledger (d) entry

2. Personal accounts relates to -----

- (a) Assets (b) incomes  
(c) persons (d) expenses

PART - B

(2 X 5 = 10 marks)

II. Answer the following questions, choosing either (a) or (b)

3.(a) What are the advantages of subsidiary books?

(OR)

(b) Enter the following transactions in the sales book of M/s Kumar Sons, Madurai.

2019 Jan 10 Sold to Shanthy & Co Chennai

50 School bags @ Rs 100 each

10 Travelling bags @ Rs 300 each

Less Trade discount @ Rs 50 each

60 Hand bags @ Rs 50 each

20 Suitcases @ Rs 400 each

4)(a) Enter the following transaction in the cash book with Discount column

2021

May	1 cash in hand	25,000
	5 Paid to Rajamani	2,000
	Discount allowed by him	100
	7 Goods purchased	2,000
	12 Received from Bilal	1,500
	Discount allowed	50
	15 sold goods for cash	2,500
	22 Paid to Ramesh	775
	Discount received	25
	26 Paid salaries	200
	30 Paid to Amar in full settlement of his account which shows a credit balance of Rs 1700	1,600

(OR)

(b) An asset is purchased for Rs. 40,000. Depreciation is to be provided annually according to the straight-line method. The useful life of the asset is 10 year and the residual value is Rs 10000. You are required to find out the rate of depreciation.

PART - C

(1 x 8 = 8 marks)

III. Answer the following question, choosing either (a) or (b)

5)(a) A machinery was purchased for Rs.17,000 on 1.10.2016. Installation expenses incurred Rs 3000. Accounts were closed on 31<sup>st</sup> March and Depreciation charged at 10% on written down value method. On 31. 3.2019 it was sold for Rs 10000. Prepare machinery account for all the years.

(OR)

(b) Prepare three column cash book from the following particulars and balance the same at the end of the month

2019

Mar 1 Cash in hand Rs 15000

1 Bank overdraft Rs 5000

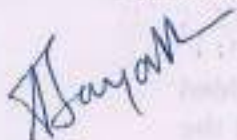
5 Received a cheque for Rs 6000 from Chandran and allowed him discount Rs 50

10 Purchased goods for Rs 4500 and paid by cheque

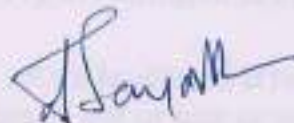
15 Paid into Bank Rs 10000

18 Chandran's cheque was sent for collection

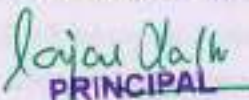
26 Bank informed that Chandran's cheque has returned dishonoured.

  
QPS

\*\*\*\*\*

  
H.O.D

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# Annai Hajira Women's College

Melapalayam, Tirumelveli - 627005

III SEMESTER, III INTERNAL TEST-NOVEMBER 2021

II B COM - BATCH II  
BUSINESS STATISTICS

Duration: 1hr

Marks: 20

Sub.Code: AMCO32

Date: 16.11.2021

## PART A

I Answer ALL questions

(1 × 2 = 2)

1. The correlation Value lies between-----

- (a) 0
- (b) 1
- (c) -1
- (d) 1 or -1

2. Regression analysis denotes-----

- (a) To find independent variable
- (b) To find known variable from unknown variable
- (c) To find unknown variable from the known variables.
- (d) None of the above

## PART B

II Answer any two questions

(2 × 5 = 10)

3 (a) Find the co-efficient of correlation for the following data:

X	10	14	15	28	35	48
Y	74	61	50	54	43	36

(OR)

(b) From the following data obtain the two regression equation:

X	6	2	10	4	8
Y	9	11	5	8	7

4.(a) The Rankings of 10 students are as follows (in two subjects)

Subject A	3	5	8	4	7	10	2	1	6	9
Subject B	6	4	9	8	1	2	3	10	5	7

(OR)

(b) From the following find the value of Y when X is 12.

Particulars	X	Y
Arithmetic Mean	7.6	14.8
Standard Deviation	3.6	2.5
$r = 0.99$		

## PART C

III Answer any one question

(1 × 8 = 8)

5. (a) Find out whether there exists any correlation between Income and Savings from the following data

Income (Rs. In '000)	50	60	70	80	90	100	110
Savings (Rs. In '000)	3	4	12	18	20	15	13

(OR)

(b) The test score and sales done by 10 selected salesman of a company show the following:

Test Score	55	65	75	60	74	85	70	73	80	65
Sales(in 000)	74	82	94	78	85	96	84	89	90	75

Fit regression equation of test score on sales; and regression equation of sales on test score. Also estimate sales for test score of 50.

\*\*\*\*\*

*R.P.*  
QPS

*Jayanth*  
H.O.D

*Jayadath*  
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III SEMESTER, III INTERNAL TEST-NOVEMBER 2021

II B.Com -BATCH II

**BANKING**

Duration:1 hr

Subject Code: AMCO33

Marks :20

Date: 17.11.2021

Part- A

(2 X 1 =2 marks)

I. Choose the correct answer

1. NABARD headquarters is located -----

- (a) Delhi
- (b) Mumbai
- (c) Chennai
- (d) Kolkata

2. The minimum and maximum period of is ----- and ----- for RD

- (a) 3 months to 5 years
- (b) 6 months to 10 years
- (c) 5 months to 15 years
- (d) 3 months to 12 years

**PART -B**

(2 X 5 =10 marks)

II. Answer the following question, choosing either (a) or (b)

3)(a) Write a short note on Indigenous Bankers.

(OR)

(b) What are the functions of Commercial Banking?

4) (a) Distinguish between Fixed Deposit and Current Deposit.

(OR)

(b) Write about Traditional banking system.

**PART -C**

(1 x 8=8 marks)

III. Answer the question, choosing either (a) or (b)

5)(a) Explain the functions of NABARD.

(OR)

(b) Explain the kinds of deposits.

\*\*\*\*\*

*GJh*  
QPS

*Jeyam*  
H.O.D

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*Lajal Vath*  
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III SEMESTER, III INTERNAL TEST - NOVEMBER 2021

II B.Com - Batch II

HUMAN RESOURCE MANAGEMENT

Duration: 1 Hr.

Subject Code: AMCO34

Marks: 20

Date: 18.11.2021

Part- A

(2 X 1 = 2 marks)

I Choose the correct answer

1. ----- is a technique used for compromising the conflicting interests of the employer and the employees.

- (a) Grievances
- (b) Collective bargaining
- (c) Workers' participation
- (d) Industrial Disputes

2. ----- is the feeling of discontent or dissatisfaction arising out of anything connected with an employee's job.

- (a) Strike
- (b) Grievances
- (c) Lock out
- (d) None of the above

PART - B (2 X 5 = 10 marks)

II Answer the following question, choosing either (a) or (b)

3. (a) Explain the characteristics of "Collective Bargaining"

(OR)

(b) Explain the various causes of employee grievances.

4. (a) Explain briefly the various forms of workers' Participation

(OR)

(b) What is Industrial Relation? State the objectives of Industrial relation

PART - C

(1 x 8 = 8 marks)

III Answer the questions, choosing either (a) or (b)

5. (a) Explain in detail the guidelines that should be followed to make collective bargaining a success.

(OR)

(b) Discuss the measures adopted for the settlement of labour disputes in detail.

\*\*\*\*\*

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*N. S.*

H.O.D

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III SEMESTER, III INTERNAL TEST – NOVEMBER 2021

II B. Com BATCH II

COMPANY ORGANISATION

Duration: 1 Hr.

Subject Code: AAC031

Marks: 20

Date: 19.11.2021

Part- A

(2 X 1 = 2 marks)

I. Choose the correct answer

1. The Board of Directors cannot delegate the power to-----

- (a) Issue Debenture
- (b) Issue Shares
- (c) Invest the funds of the company
- (d) Both (a) and (b)

2. Which of the following is relates to the meeting of the creditors?

- (a) Meeting of Directors
- (b) Meeting of Debenture holders
- (c) Class meeting
- (d) Meeting of Shareholders

PART – B

(2 X 5 = 10 marks)

II. Answer the following questions, choosing either (a) or (b)

3. (a) Discuss the modes of appointing directors of the company.

(OR)

(b) Distinguish between 'shareholder and members of a company.

4. (a) Why a company should have debenture holder's meeting?

(OR)

(b) What are the advantages of conducting creditors meeting?

PART – C

(1 x 8 = 8 marks)

III. Answer the following question, choosing either (a) or (b)

5. (a) Explain the functions of managing director and manager.

(OR)

(b) 'Meeting of Debenture holders' - Explain.

\*\*\*\*\*

  
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**III SEMESTER, III INTERNAL TEST - NOVEMBER 2021**

**II B. Com - BATCH II**

**BUSINESS COMMUNICATION**

**Duration: 1 Hr.**

**Subject Code: ASCO31**

**Marks: 20**

**Date: 22.11.2021**

**PART A**

**I Choose the correct answer (2 x 1 = 2)**

1.----- Interview is used to test the behaviour of the candidate to be interviewed under stress

- (a) Structure
- (b) unstructured
- (c) stress
- (d) group

2. Along with the letter of Application for situation one may send -----

- (a) Declaration letter
- (b) apology letter
- (c) Bio data
- (d) All the above

**PART - B (2 X 5 = 10 marks)**

**II. Answer the following questions, choosing either (a) or (b)**

3. (a) Explain the general features of Interview.

**(OR)**

(b) What are the Guidelines for effective Interview?

4. (a) Explain the strategy for different customers.

**(OR)**

(b) write the specimen for casual reminder in collection letter

**PART - C**

**(1 x 8 = 8 marks)**

**III. Answer the following question, choosing either (a) or (b)**

5. (a) Explain types of Interviews.

**(OR)**

(b) Explain stages in collection.

\*\*\*\*\*

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**QPS**

*[Signature]*  
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**V SEMESTER, III INTERNAL TEST – NOVEMBER 2021**

III B. Com – Batch II

**CORPORATE ACCOUNTING- I**

Duration: 1 Hr.

Subject Code: SMC051

Marks: 20

Date: 15.11.2021

**Part- A**

(2 X 1 = 2 marks)

**I. Choose the correct answer**

1. Underwriting commission is payable on -----

- (a) the issue price of a share
- (b) the nominal value of a share
- (c) the face value of a share
- (d) none of the above

2. Period from the date of acquisition of business to the date of Certificate of Incorporation is known as period -----

- (a) Prior to
- (b) After
- (c) Before and after
- (d) None of these

**PART –B (2 X 5 =10 marks)**

**II. Answer the following question, choosing either (a) or (b)**

3. (a) Kamal Ltd., issued 30,000 equity shares of Rs. 10 each. The issue was underwritten as follows:

Raj: 30%; Ramu: 30%; Raghu: 20%

However, the company received applications for 25,000 shares only.

Determine the liability of the underwriters.

**(OR)**

(b) Difference between Amalgamation and Absorption.

4. Explain the methods of valuing share.

**(OR)**

(b) Raman Ltd., agrees to purchase the business of Krishnan Ltd., on the following terms: (i) Payment of cash Rs. 3 each on 1,20,000 shares. (ii) Issue of 90,000 shares of Rs.10 each, at a market value of Rs. 12 each (iii) Issue of 5% debentures of Rs. 1,00,000 at a premium of 20%. Calculate the purchase Consideration.

**PART –C (1 x 8=8 marks)**

**III. Answer the question, choosing either (a) or (b)**

5. (a) Balance sheet of "B" Ltd. as on 31.12.2016 is given below:

Liabilities	Rs	Assets	Rs
Issued capital (Rs 10 each)	4,00,000	Fixed Assets	5,00,000
Reserve	30,000	Current Assets	2,00,000
Profit & Loss A/C	80,000	Goodwill	40,000
5% Debentures	1,00,000		
Current Liability	1,30,000		
	7,40,000		7,40,000

Fixed assets valued at Rs. 3,50,000 and goodwill valued at Rs. 50,000.

Net profit for the last 3 years were 51,600, 52,000, 51,650. Of which 20% was placed to reserve. The return on investment expected 10%.

Compute the value per equity share under Net asset method and yield method.

**(OR)**

(b) A company was incorporated on May 1st 1984 to take over a business as a going concern from 1st January of the same year. The turnover for the year ended 31st December was Rs. 2,00,000 namely Rs. 60,000 for the first period upto 1st May and Rs. 1,40,000 for the following period. From the profit and loss a/c given below for the year

ended 31st December, ascertain the profits earned prior to and after the incorporation of the company.

	Rs		Rs
To Rent & rates	3,240	By Gross profit	70,000
To Insurance	720		
To Lighting	2,040		
To Salaries	7,800		
To Directors fees	2,000		
To Discount	5,000		
To Commission	10,000		
To General Expenses	2,400		
To Carriage Outwards	3,000		
To Bank charges	420		
To Repairs	1,380		
To Bad debts	600		
To Loan Interest	1,200		
To Net profit	30,200		
	70,000		70,000

\*\*\*\*\*

*QPS*

*Jayath*  
H.O.D

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*Lajal*  
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V SEMESTER, III INTERNAL TEST - NOVEMBER 2021

IIIB.Com BATCH II

COST ACCOUNTING

Duration: 1 Hr.

Subject Code: SMC052

Marks: 20

Date: 22.11.2021

Part- A

(2 X 1 = 2 marks)

I. Choose the correct answer

1) The cost of a product as determined under standard cost system is

- (a) fixed cost (b) historical cost  
(c) direct cost (d) pre-determined cost

2) Labour rate variance is due to \_\_\_\_\_

- (a) overtime allowance (b) defective material  
(c) poor working conditions (d) none of the above

PART - B

(2 X 5 = 10 marks)

II. Answer the following questions, choosing either (a) or (b)

3) (a) Discuss the advantages of standard costing?

(OR)

(b) Distinguish between standard costing and budgetary control?

4) (a) From the following particulars, calculate

(i) material cost variance (ii) material price variance

Standard	Actual
X 40 kg at Rs 11	50 kg at Rs 12
Y 60 kg at Rs 12	80 kg at Rs 14

(OR)

(b) Calculate (i) labour cost variance (ii) labour rate variance

Standard	Actual
Output 1000 units	Output 1200 units
Rate of payment Rs 6 Pu	Wages paid with bonus Rs.8000
Time taken 50 hours	Time worked 40 hours

PART - C

(1 x 8 = 8 marks)

III. Answer the following question, choosing either (a) or (b)

5) (a) From the following data, calculate overhead variances

	Budgeted	Actual
Fixed overheads	Rs 300000	Rs 320000
Output in units	30000	25000
Working hours	75000	60000

(OR)

(b) calculate sales variance and analyse it on the basis of data given below

Products	Budget	Actual
X	10000 units @ Rs 20	6000 units @ Rs 24
Y	5000 units @ Rs 10	9000 units @ Rs 9

\*\*\*\*\*

*Jayam*

QPS

*Lajja Math*  
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V SEMESTER, III INTERNAL TEST-NOVEMBER 2021

III B COM - BATCH II

**BUSINESS LAW**

Duration: 1 Hr.

Sub. Code: SMC053

Marks : 20

Date: 17.11.2021

**PART - A**

**(2 × 1 = 2)**

**I. Choose the correct answer**

1. Means substitution of a new contract in the place of an existing contract.

- (a) Novation
- (b) Remission
- (c) Rescission
- (d) None of the above

2. Is also known as retributive damage.

- (a) General damage
- (b) Special damage
- (c) Nominal damage
- (d) Exemplary damage

**PART B**

**(2 × 5 = 10)**

**II. Answer ALL the questions either (a) or (b)**

3. (a) Explain doctrine of Novation.

**(OR)**

(b) Explain about tender of performance and effect of valid tender.

4. (a) Define damages and what are the kinds of damages

**(OR)**

(b) Define Contract of guarantee and describe essentials of guarantee

**PART C**

**(1 × 8 = 8)**

**III. Answer ALL the questions either (a) or (b)**

5 (a) Explain the doctrine of frustration

**(OR)**

(b) What are the rights of Surety?

\*\*\*\*\*

*Sayan*  
QPS

*Sayan*  
H.O.D

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V SEMESTER, III INTERNAL TEST - NOVEMBER 2021

III B. Com - Batch II

RESEARCH METHODOLOGY

Duration: 1 Hr.

Subject Code: SMC054

Marks: 20

Date: 18.11.2021

## Part- A

I. Choose the correct answer (2 X 1 =2 marks)

1.----- refers to the task of drawing inferences from the collected facts.

- (a) Interpretation
- (b) Report
- (c) Conclusion
- (d) Hypothesis

2.-----are placed at the bottom of the page on which the reference or quotation are given.

- (a) References
- (b) Foot Notes
- (c) Header
- (d) Documentation

## PART -B (2 X 5 =10 marks)

II. Answer the following question, choosing either (a) or (b)

3. (a) Draw a layout of the report and explain in detail.

(OR)

(b) Mention the order observed in Bibliography entry of magazines.

4. (a) What are the precautionary measures need to be taken before writing a report.

(OR)

(b) Explain the significance of writing a report.

## PART -C

(1 x 8 =8 marks)

III. Answer the questions, choosing either (a) or (b)

5. (a) Discuss in detail about interpretation techniques and precautions.

(OR)

(b) Describe the steps involved in writing a report.

\*\*\*\*\*

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QPS

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**V SEMESTER, III INTERNAL TEST-NOVEMBER 2021**

**III B.Com - BATCH II**

**INCOME TAX LAW & PRACTICE - I**

Duration: 1 Hr

Sub.Code:SECO5A

Marks: 20

Date: 19.11.2021

**PART A**

**I Answer ALL questions**

**(1 × 2 = 2)**

1. Statutory Limit for exemption of gratuity received by non-Govt. employee is:

- (a) Rs. 300,000
- (b) Rs. 500,000
- (c) Rs. 20,00,000
- (d) Rs. 400,000

2. Arrears of rent recovered are subject to standard deduction U/S 24 upto

- (a) 1/5<sup>th</sup> of arrears
- (b) 25% of arrears
- (c) 1/3<sup>rd</sup> of arrears
- (d) 30% of arrears

**PART B**

**(2x5=10)**

**II Answer the following questions, choose either (a) or (b)**

3.(a) Mr.Arul retired on 27.07.2019 after completing 27 years and 7 months of service and received Rs.5,00,000 as gratuity from his employer. He is covered under the Payment of Gratuity Act. At the time of retirement his salary was as mentioned below:

- Basic Pay - 12,000p.m.,
- Dearness Allowance - Rs.7500p.m,
- Commission on turnover - 50,000p.m.

Find out his taxable gratuity.

**(OR)**

(b)Mr. Sadick is getting a pension of Rs. 18,000 p.m from a company. During the previous year he got his two-third pension commuted and received Rs.11, 07,000. Compute the exemption amount, if:

- (i)He also received gratuity
- (ii) He didn't receive gratuity.

4 (a) Mr. Prakash retired on 31.08.2019 after 22 years of service and received Rs. 150,000 as leave encashment for 15 months. His employer allowed him 60 days leave for each year of his service. During his service he has encashed 14 months leave. He received a basic salary of Rs.12,000 p.m. along with a Dearness Allowance of Rs.4,000p.m. The Dearness allowance has entered into retirement his benefit for the past 12months.

Calculate his taxable leave salary.

**(OR)**

(b)Arun owns a residential house property. It comprises two equal residential units. Unit 1 and Unit 2. While unit 1 is self occupied by Arun for his residential purpose, Unit 2 is let (rent being Rs.5000 p.m). Municipal value of the property is Rs.120000: Standard rent is Rs.1,30,000 and fair rent is Rs.1,50,000.Find gross annual value of the property for the assessment year 2020-2021.

**PART C**

**(1x8=8)**

**III Answer the question, choose either (a) or (b)**

5.(a) A,B and C are 3 brothers owning equally a house property consisting of six unit. One unit is self occupied by each one of them for their residence. The remaining 3 units are let-out on a monthly rent of Rs.6000 per unit. The municipal value of the house property is Rs.4,00,000 and the municipal taxes paid the amount to Rs.80,000 during the year. The other expenses were as under:

- (i) Collection charges 6,000
- (ii)Insurance premium paid 7,000
- (iii)Interest on loan is taken for construction of house 1998Rs. 1,30,000

One of the let out unit remained vacant for 3 months during the financial year 2019-2020. Mr. B could not occupy his unit for 8 months as he was transferred to some other city. He does not own any other house property. The other taxable income of A, B and C are 90,000, 1,00,000 and 120,000 respectively.

Compute the taxable income under the Head 'Income from house property' and also the total income of the 3 brothers for the assessment year 2020-2021

(OR)

(b) John is employed in a public company and is paid a sum of Rs. 6,00,000 on voluntary retirement from service. The normal age of retirement in the company is 60 years and who was 45 years at the time of retirement had completed 20 years of service. His monthly salary at the time of retirement was as follows:

(i) Basic Pay 10,000

(ii) Dearness Allowance (50 p.c. includible for pension)

6,000

(iii) House Rent Allowance 3,000

(iv) Conveyance Allowance Rs. 800

What is the amount of taxable compensation under the Act?

\*\*\*\*\*

*Q.B*  
QPS

*H.O.D*  
H.O.D

*Lajane Dath*  
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V SEMESTER, III INTERNAL TEST - NOVEMBER 2021

III B.Com Batch II

PERSONALITY DEVELOPMENT

Duration: 1 Hr.

Subject Code:SCSB5A

Marks: 20

Date: 20.11.2021

## Part- A

I. Choose the correct answer (2 X 1 =2 marks)

1. The assembly of people in a place for a purpose is called a-----

- (a) Service
- (b) a social activity
- (c) Group
- (d) Bargaining

2. In ----- interview questions are asked extempore according to the situation.

- (a) Formal
- (b) Face to face
- (c) Informal
- (d) Telephone interview

## PART-B (2 X5 =10 marks)

II. Answer the following question, choosing either (a) or (b)

3. (a) What are the Do's and Don'ts of Table Etiquettes.

(OR)

(b) How to dress for an interview?

4. (a) State the personality traits required for group discussion.

(OR)

(b) What is Attitude? Explain the types of attitudes.

## PART -C

(1 x8=8 marks)

III. Answer the questions, choosing either (a) or (b)

5.(a) What is Interview? What are the types of Interview?

(OR)

(b) What is Group discussion? Explain the process of Group discussion

\*\*\*\*\*

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Melapalayam, Tirunelveli - 05

IV SEMESTER, III INTERNAL TEST -MAY 2022

II B.COM BATCH I & II

ADVANCED FINANCIAL ACCOUNTING-II

Duration: 1 Hr.

Subject Code: AMCO41

Marks : 20

Date: 09.05.2022

**PART- A** (2×1 = 2 marks)

**I. Choose the correct answer**

1. When a firm is dissolved, the following account is to be prepared.

- Revaluation A/c
- Realisation A/c
- Memorandum Revaluation A/c
- Goodwill A/c

2. Joint policy account is \_\_\_\_\_.

- Nominal A/c
- Personal A/c
- An asset
- None of these

**PART -B** (2×5 = 10 marks)

**II. Answer ALL the questions either (a) or (b)**

3. a. Under what circumstances is a partnership dissolved?

(OR)

b. A, B and C are in partnership sharing profits and losses equally. They take out a joint life policy for Rs. 30,000 on 01.01.2015 and pay an annual premium of Rs. 3,000. The books of accounts are closed on 31<sup>st</sup> December every year. C died on 01.01.2017. The firm realised the policy amount the next day. Pass the necessary journal entries.

4.a. Explain the Garner vs Murray Case Law.

(OR)

b. A, B and C were equal partners on 31.03.2013. Their position was as follows:

Liabilities	Rs.	Assets	Rs.
Capital		Cash	1,500
A	2,000	C's capital	200
B	600	Loss on realisation	900
Total	2,600	Total	2,600

'C' is insolvent and can pay nothing. Close the books of the firm.

**PART- C** (1×8 = 8 marks)

**III. Answer ALL the questions either (a) or (b)**

5.a. The following was the Balance Sheet of Radha, Krishna and Sankar as on 31.12.2020:

Liabilities	Rs.	Assets	Rs.
Creditors	12,000	Machinery	25,000
General reserve	3,000	Stock	11,000
Capital:		Debtors	9,500
Radha	20,000	Goodwill	13,000
Krishna	15,000	Cash	1,500
Sankar	10,000		
Total	60,000	Total	60,000

On the above date, the firm was dissolved. The assets realised Rs. 50,000. The creditors were settled at Rs. 11,500. Dissolution expenses amounted to Rs. 1,000. The partners had 3:2:1 as their profit sharing ratio. Give the necessary ledger accounts to close the books.

(OR)

b. The Balance Sheet of A and B as on 01.04.2019 was as follows:

Liabilities	A Rs.	B Rs.	Assets	A Rs.	B Rs.
Creditors	20,000	15,000	Machinery	15,000	20,000
Bank Loan	10,000	-	Stock	20,000	10,000
Capital	30,000	40,000	Debtors	25,000	22,000
			Bank	-	4,000
Total	60,000	56,000	Total	60,000	56,000

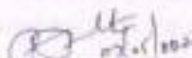
They decided to amalgamate their business. The following revaluations were agreed:

- Machinery to be reduced by 10%.
  - Stock of A to be reduced by 20% and that of B by 10%.
  - A provision of 5% is to be made against debtors of both.
  - Each partner is to be credited with goodwill of Rs. 10,000.
  - Bank loan of A is to be paid by him.
- Pass journal entries in the books of the new firm and prepare amalgamated Balance Sheet as on 01.04.2019.

\*\*\*\*\*

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II SEMESTER, I INTERNAL TEST - MARCH 2022

I B Com - Batch II

PROFESSIONAL ENGLISH FOR COMMERCE & MANAGEMENT - II

Duration: 1 Hr.

Subject Code: CPCM21

Marks: 20

Date: 17.03.2022

**PART A**

Answer ALL questions

(2 × 2 = 4)

1. Add prefixes to the following words

- (a) Security
- (b) Smart
- (c) Own
- (d) Power

2. Match the following:

- |                        |  |
|------------------------|--|
| <b>Chit Funds</b>      | A) a digital or virtual currency that is secured by Cryptography                     |
| <b>Ledger</b>          | B) a growing list of records that are linked using Cryptograph                       |
| <b>Crypto currency</b> | C) record used to store bookkeeping entries For balance-sheet                        |
| <b>Block chain-</b>    | D) a saving and credit product which bears a pre-determined value of a fixed period. |

**PART B**

Answer ALL questions either (a) or (b) (2 × 3 = 6)

3. (a) What are the advantages of Credit Card?

(OR)

(b) Is online banking safe? Comment

4. (a) List some of the basic digital tools that beginners to know about.

(OR)

(b) Write down the procedure to access Google Meet.

**PART C**

Answer ALL questions

(5 × 2 = 10)

5. (a) Banking and banks are very important for the functioning of the modern world. Without banks the way we use money would not work. Banks enable people to save money, borrow money and to pay for things with ease and security.

Each country in the world has its own well known banks that have branches in nearly every city so that they are convenient for people to use. People often have to visit the local branch of the bank when they want certain services. There are also some very big multinational banks that have branches in most countries in the world

As well as the local branches that are in most cities, each bank will also have a head office. This is where all central tasks are performed that let the local branches function. The people that work in the branches will be the bank manager, the person in charge, and various tellers who work behind the bank counter and help the customers. There will also likely be security guards to protect the money, workers and customers.

Most customers will just need to see the tellers when they go to the bank if they are paying money into their account as either cash or a check. However, they might need to see the bank manager if they want to open an account or if they have become overdraw, when they have spent more money than there was in the account. Also, if they want to borrow money and get a loan the person will need to see the bank manager who will have to approve it.

As well as being able to use cash or checks to pay for things, banks also offer their customers the more convenient methods of using either a debit card or credit card. These methods are very convenient as you just need to carry a small plastic card to be able

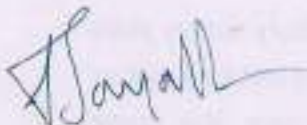
to pay for anything. When paying with plastic you will need to either sign a receipt or enter a PIN number to conform the purchase and that you are authorized to use the card.

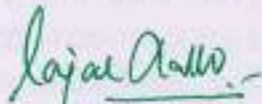
Answer the following:

1. According to the text, what do banks enable people to do?
2. What is the purpose of the head office of a bank?
3. What do bank tellers do?
4. What happens when a bank customer spends more money than they have in their account?
5. Which of the following methods is more convenient when paying for something other than using a cheque?

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II SEMESTER, I INTERNAL TEST - MARCH 2022

I B.Com BATCH II

FINANCIAL ACCOUNTING-II

Duration: 1 Hr.

Subject Code: CMCO21

Marks: 20

Date: 19.03.2022

Part- A

(2 X 1 = 2 marks)

## I. Choose the correct answer

1. Heavy advertising to launch a new product is-----

- (a) Revenue expenditure
- (b) Capital expenditure
- (c) Deferred Revenue expenditure
- (d) None of these.

2. Income and expenditure account is a -----

- (a) Nominal account
- (b) Real account
- (c) Personal account
- (d) None of the above

PART - B (2 X 5 = 10 marks)

## II. Answer the following question, choosing either (a) or (b)

3. (a) Prepare Receipts and payments account from the following details for the year ended 31.12.2020

Balance of cash on 1.1.2020	3,500
Subscription received	21,500
Donations received	10,000
Entrance fee	2,500
Sports articles bought for	7,500
Special subscription	3,500
Special subscription expenses	2,500
Day to day expenses	6,000
Deposited into bank	20,000

## Additional Information:

Donation and entrance fee are to be capitalized.  
 Special subscription surplus to be treated as Income  
 Outstanding subscription Rs. 2,000

(OR)

(b) Subscription outstanding on 1.1.99 Rs. 1,500  
 Subscription received during 1999 Rs. 16,500  
 Subscription received in advance on 1.1.99 Rs. 2,500  
 Subscription outstanding on 31.12.99 Rs. 3,500  
 Subscription received in advance Rs. 6,000 on 31.12.99  
 How much to be credited to Income & Expenditure account for 1999?

4. (a) Calculate the amount to be posted to Income & Expenditure a/c for the year ending 31.12.1999

Stock of stationery on 1.1.99 Rs. 300  
 Creditors for stationery outstanding on 1.1.99 Rs. 200  
 Amount paid for stationery during the year 1999 Rs. 1080  
 Stock of stationery on 31.12.99 Rs. 50  
 Creditors for stationery on 31.12.99 Rs. 130

(OR)

(b) From the following information calculate the amount of sports material debited to income & expenditure account:

	Rs.
Opening stock of sports material on 1-1-2015	6,000
Purchase of sports material during the year 2015	20,000
Closing stock of sports material on 31-12-2015	8,000
Sale of sports material	500

## PART - C

(1 x 8=8 marks)

## III. Answer the questions, choosing either (a) or (b)

5. (a) From the following details relating Ahmedabad Sports Club for the year ended 31<sup>st</sup> December 1999, Prepare Income and Expenditure account and a balance sheet.

Receipts	Rs.	Payments	Rs.
To balance b/d		By salaries	6,000
Cash	1,075	By Entertainment Exp.	6,900
Bank	16,300	By Electricity Charges	1,000
To Subscription 1998	1,010	By Telephone Charges	1,200
To Subscription 1999	18,900	By Postage	200
To Subscription 2000	900	By miscellaneous	700
To Donation	7,000	By stationery	850
To interest from Bank	1,340	By Repairs	400
To Entertainment		By Creditors for building	12,000
Receipt	2,600	purchased in 1993	
To Telephone rent	900	By balance c/d	
		Cash	1,765
		Bank	19,010

## Additional Information:

Outstanding for 1999:

Outstanding Subscription for 1999 Rs.1,100

Interest due on deposit but not received Rs.200

Outstanding Salary Rs.200

Capital Fund Rs.1,06,385.

Buildings Rs.1,00,000 as on 31.12.99

(OR)

(b) Write down the difference between Receipts and payments account and Income and Expenditure account.

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II SEMESTER, I INTERNAL TEST - MARCH 2022

I B. Com Batch II

## PRINCIPLES OF INSURANCE

Duration: 1 Hr.

Subject Code: CMCO 22

Marks: 20

Date: 21.03.2022

Part- A

(2 X 1 = 2 marks)

### I. Choose the correct answer

1. For regulation of the Insurance Trade in the country the Government has formed-----

- A. SEBI
- B. Reserve Bank of India
- C. General Insurance Corporation
- D. Insurance Regulatory & Development Authority

2. A nomination can be made only in favour of -----

- A. Parents
- B. Spouse & Children
- C. Spouse
- D. Any individual

PART - B

(2 X 5 = 10 marks)

### II. Answer the following question, choosing either (a) or (b)

3. (a) What are the functions of Insurance?

(OR)

(b) What are the importances of Insurance?

4. (a) Define Insurance. What are its characteristics?

(OR)

(b) What are the benefits of Insurance to the Society?

PART - C

(1 x 8 = 8 marks)

### III. Answer the questions, choosing either (a) or (b)

5. (a) Explain Principles of Insurance.

(OR)

(b) Describe the essentials of Insurance Contract.

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**IV SEMESTER, I INTERNAL TEST - MARCH 2022**

**II BCom - Batch II**

**IMPORT & EXPORT PROCEDURES**

**Duration: 1 Hr.**

**Subject Code: AMCO44**

**Marks: 20**

**Date: 17.03.2022**

**PART A**

**Answer ALL questions**

**(1 × 2 = 2)**

1. Trade conducted within a country is known as \_\_\_\_\_

- (a) Internal Trade
- (b) International Trade
- (c) Domestic Trade
- (d) Wholesale Trade

2. A duty on import is known as \_\_\_\_\_

- (a) Quota
- (b) Devaluation
- (c) Prevention
- (d) tariff

**PART B**

**II Answer ALL questions either (a) or (b)**

**(2 × 5 = 10)**

3. (a) Define International Trade .

**(OR)**

(b) What are the important of International Trade?

4. (a) What do you mean by protection?

**(OR)**

(b) Bring out the differences between internal and International Trade.

**PART C**

**III Answer ALL questions either (a) or (b) (1 × 8 = 8)**

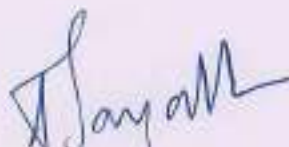
5 (a) what are the disadvantages of protection?

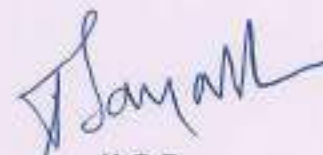
**(OR)**

(b) Explain relationship between economic growth and international trade

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IV SEMESTER, I INTERNAL TEST - MARCH 2022

II BCom - Batch II

COMPUTER APPLICATION IN BUSINESS

Duration: 1 Hr.

Subject Code: AACO41

Marks: 20

Date: 21.03.2022

## PART A

I Answer ALL questions

(1 × 2 = 2)

1. Father of Computer is \_\_\_\_\_

- (a) Charles Babbage
- (b) Christia Joans
- (c) Pascal
- (d) Sunder Pitchai

2. CPU stands for \_\_\_\_\_

- (a) Central Processing Unit
- (b) Central Power Unit (c) Central Protection Unit
- (d) Central prerogative Unit

## PART B

II Answer ALL questions either (a) or (b)

(2 × 5 = 10)

3. (a) Differentiate hardware and software.

(OR)

(b) What are the components of Computer?

4. (a) Describe the characteristics of Computer.

(OR)

- (b) Write a short note: i) Application Software  
ii) System software

## PART C

III Answer ALL questions either (a) or (b) (1 × 8 = 8)

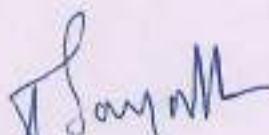
5 (a) Explain the generation of the computer

(OR)

(b) What are the advantages and disadvantages of the Computer?

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Melapalayam, Tirumelveli - 05

VI SEMESTER, I INTERNAL TEST – MARCH 2022

III B.Com - BATCH II

INDUSTRIAL LAW

Duration: 1 Hr.

Subject Code: SMC063

Marks: 20

Date 24.03.2022

Part- A

(2 X 1 =2 marks)

I. Choose the correct answer

1. The failure or inability to provide employment by the employer is

- (a) Strike
- (b) Lockout
- (c) Lay - off
- (d) Retrenchment

2. A person who has the ultimate control over the offers of a factory is called-----

- (a) Occupier
- (b) Employer
- (c) Supervisor
- (d) Manager

PART –B (2 X5 =10 marks)

II. Answer the following question, choosing either (a) or (b)

3. (a) Explain the essentials of an structural dispute.

(OR)

(b) State the provisions of Industrial Dispute Act with reference to strikes & Lockouts.

4. (a) State the law relating to working hours of children & women workers in a Factory.

(OR)

(b) Who are certifying Surgeons? What are their duties?

PART – C

(1 x 8=8 marks)

III. Answer the questions, choosing either (a) or (b)

5. (a) Discuss the Industrial Disputes Settlement authorities under the Industrial Disputes Act.

(OR)

(b) Discuss the provisions of Factories Act relating to Health & Welfare of Workers.

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VI SEMESTER, I INTERNAL TEST - MARCH 2022

III B. Com Batch II

CORPORATE ACCOUNTING II

Duration: 1 Hr.

Subject Code: SMCO61

Marks: 20

Date: 23.03.2022

Part- A

(2 X 1 =2 marks)

I. Choose the correct answer

1. List 'A' in statement of affairs gives the list of -----

- A. Assets Specifically Pledged
- B. Assets Not Specifically Pledged
- C. Preferential Creditors
- D. Unsecured Creditors

2. Present Value of Lev and Schwartz Model introduced by Lev and Schwartz was introduced in the year-----

- A. 1972
- B. 1971
- C. 1981
- D. 1991

PART -B

(2 X 5 =10 marks)

II. Answer the following question, choosing either (a) or (b)

3. (a) Define Human Resource Accounting. Explain its objectives.

(OR)

(b) Explain the merits and demerits of human resource accounting.

4. (a) Write the Specimen of Liquidator's Final Statement of Account.

(OR)

(b) Explain the term Contributory.

PART -C

(1 x 8=8 marks)

III. Answer the questions, choosing either (a) or (b)

5. (a) Explain the methods of valuation of human resource accounting.

(OR)

(b) A company which went into voluntary liquidation. You are required to prepare the liquidator's final account allowing for his remuneration @ 2% on the amount realized and 2% on the amount distributed among the unsecured creditors other than preferential creditors.

Preferential creditor Rs. 20,000

Unsecured creditors Rs. 52,000

Debenture Rs. 30,000

The assets realised the following sums:

Land and building Rs. 30,000

Plant and machinery Rs. 38,650

Fixture and fittings Rs. 3,000

The liquidation expenses amount to Rs. 3,000

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Melepalayam, Tirumelveli - 05

VI SEMESTER, I INTERNAL TEST – MARCH 2022

III B.COM BATCH II

## MANAGEMENT ACCOUNTING

Duration: 1 Hr.

Subject Code: SMCO62

Marks: 20

Date: 16.03.2022

### Part- A

(2 X 1 =2 marks)

#### I. Choose the correct answer

1. Liquid Ratio is also known as -----

- (a) Acid Test Ratio
- (b) Current Ratio
- (c) Working Capital Ratio
- (d) Net Asset Ratio

2. The Turnover ratio helps Management in -----

- (a) Managing Resources
- (b) Managing a debt
- (c) Evaluating Performance
- (d) Planning the Finance

### PART -B

(2 X5 =10 marks)

#### II. Answer all the questions choosing either (a) or (b)

3. (a) Explain the characteristics of Management Accounting?

(OR)

(b) From the Trading a/c, Calculate a) Gross Profit Ratio

b) Stock Turnover Ratio

Particulars	Rs.	Particulars	Rs.
To Opening Stock	1,00,000	By Sales	5,60,000
To Purchase	3,50,000	By Closing	
To Wages	9,000	Stock	1,00,000
To Gross Profit	2,01,000		
	6,60,000		6,60,000

4.(a) Calculate (a) current assets (b) Liquid Assets (c) inventory

Current ratio = 2.6:1

Liquid Ratio = 1.5:1

Current Liabilities = Rs.40000

(OR)

(b) From the following information calculate average payment period.

Total purchase	5,81,000
Cash purchase	30,000
Purchase return	51,000
Creditors at the end	1,06,000
Bills payable at the end	60,000

PART -C

(1 x 8=8 marks)

#### III. Answer all the questions choosing either (a) or (b)

5.(a) What are the significance of Ratio Analysis?

(OR)

(b) The following figures relate to Umayya Traders for the year ended 31<sup>st</sup> March 2017.

#### Trading and Profit and loss Account

	Rs.		Rs.
To Opening Stock	75,000	By Sales	5,20,000
		(-) Return	20,000
To Purchases	3,25,000	By Closing Stock	100000
To Gross profit	2,00,000		
	6,00,000		600000
<b>To operating expenses</b>		By Gross Profit	200000
Administration	40,000	<b>By non-operating</b>	
Selling	25,000	<b>income</b>	
<b>To non operating</b>		Dividend	9,000
<b>expenses</b>		Profit on sale	
Loss on sale of assets	5,000	of shares	11,000
To Net profit	1,50,000		20,000
	2,20,000		2,20,000

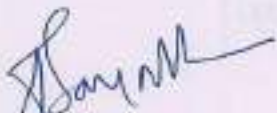
Balance sheet			
Liabilities	Rs.	Assets	Rs.
2000 Equity shares of Rs. 100 each	200000	Land & buildings	150000
Reserves	90000	Plant and Machinery	80000
Current Liabilities	150000	Stock	100000
Profit & Loss a/c	60000	Debtors	140000
	<u>500000</u>	Cash	30000
			<u>500000</u>

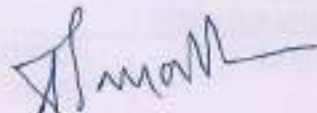
Calculate

- Gross Profit Ratio
- Operating Ratio
- Operating Profit Ratio
- Net Profit Ratio
- Expenses Ratio
- Stock Turn over Ratio
- Return of Total Resources
- Turnover of Fixed Assets
- Turnover to total assets.

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II SEMESTER, I INTERNAL TEST - MARCH 2022

I B Com - Batch II

MARKETING

Duration: 1 Hr.

Marks: 20

Subject Code: CACO21

Date: 22.03.2022

## PART A

Answer ALL questions

(1 × 2 = 2)

1. 'Marcatas' means -----

- (a) People
- (b) Mercantile
- (c) Market
- (d) Exchange

2. Exchange of goods or services among the buyers and sellers of particular village is known as

- (a) Family Market
- (b) Local Market
- (c) National Market
- (d) International Market

## PART B

Answer ALL questions either (a) or (b) (2 × 5 = 10)

3. (a) Define Market and State its features.

(OR)

(b) Discuss the Importance of Marketing.

4. (a) What are objectives of marketing?

(OR)

(b) Differentiate Marketing and Selling.

## PART C

Answer ALL questions either (a) or (b) (1 × 8 = 8)

5. (a) Explain the different classification of Markets.

(OR)

(b) Explain various approaches to the study of Marketing

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Melapalayam, Tirunelveli - 627 005

IV SEMESTER, I INTERNAL TEST - MARCH 2022

II BCom - Batch II

BUSINESS MATHEMATICS

Duration: 1 Hr.

Subject Code: AMCO42

Marks: 20

Date: 15.03.2022

## PART A

I Answer ALL questions

(1 × 2 = 2)

1. A number which is not divisible by any natural numbers except 1 and itself is called -----

(a) Prime Number

(b) Odd Number

(c) Even Number

(d) Irrational Number

2.  $4^{1/2}$  is equal to

(a) 0 (b) 2 (c)  $2^2$  (d)  $2^3$

## PART B

II Answer ALL questions either (a) or (b)

(2 × 5 = 10)

3. (a) (i) Find HCF for 8575 and 6125

(ii) Find LCM for 72, 324 and 432

(OR)

(b) If  $X^{1/a} = Y^{2/b} = Z^{1/c}$  and  $XYZ = 1$ . Find the value of  $a+b+c$ .

4. (a) Express the following as a power of 5

$$\frac{625^{x+2}}{125^x}$$

(OR)

(b) Find the value of  $(64)^{1/6}$

## PART C

III Answer ALL questions either (a) or (b)

(1 × 8 = 8)

5. (a) If  $pqr = 1$ , show that

$$\frac{1}{1+p+q-1} - \frac{1}{1+q+r-1} + \frac{1}{1+r+p-1} = 1$$

(OR)

(b)  $\frac{1}{x} + \frac{1}{y} + \frac{1}{z} = 0$ ; if  $X^y = Y^z = Z^x$  and  $xyz = 1$

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Q.P.S

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IV SEMESTER, I INTERNAL TEST - MARCH 2022

II B.Com BATCH II

ENTREPRENEURSHIP DEVELOPMENT

Duration: 1 Hr.

Subject Code: ASCO41

Marks: 20

Date: 22.03.2022

Part- A

(2 X 1 = 2 marks)

I. Choose the correct answer

1. The entrepreneur who blindly follows the traditional methods of production in spite of the loss is called \_\_\_\_\_.

- (a) Drone entrepreneur
- (b) Adoptive entrepreneur
- (c) Fabian entrepreneur
- (d) Innovative entrepreneur

2. The French word "Entreprendre" means \_\_\_\_\_

- (a) to imitate
- (b) to undertake
- (c) to organise
- (d) to sell

PART - B (2 X 5 = 10 marks)

II. Answer the following question, choosing either (a) or (b)

3. (a) Describe the main functions of an Entrepreneur.

(OR)

(b) What makes a successful Entrepreneur?

4. (a) Distinguish between 'Entrepreneur' and 'Intrapreneur'

(OR)

(b) What are the characteristics of an Entrepreneur?

PART - C

(1 x 8 = 8 marks)

III. Answer the questions, choosing either (a) or (b)

5. (a) Explain in detail the types of Entrepreneurs.

(OR)

(b) Discuss the role of entrepreneurs in the economic development of a country.

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VI SEMESTER, I INTERNAL TEST - MARCH 2022

III B Com - Batch II

INCOME TAX LAW & PRACTICE - II

Duration: 1 Hr.

Subject Code: SECO6A

Marks: 20

Date: 21.03.2022

**PART A**

**I Choose the correct answer (1 × 2 = 2)**

1. Which of the following is not a Capital Asset?

- (a) Goodwill of a business
- (b) Jewellery
- (c) Stock-in-trade
- (d) Agricultural land in Delhi.

2. Capital Gain arises on-----

- (a) Business Capital
- (b) Stock of trade
- (c) Transfer of capital asset
- (d) None

**PART B**

**II Answer ALL questions either (a) or (b) (2 × 5 = 10)**

3. (a) Define Capital Assets. Classify its type.

(OR)

(b) A firm dissolved. Its one short-term capital asset costing Rs.1,00,000 is taken over by a partner at an agreed price of Rs.1,10,000, whereas the fair market value of the asset is Rs.1,50,000. Compute the amount of Capital Gain.

4. (a) Describe transfer not regarded as transfer.

(OR)

(b) Mr. Amish purchased a land on 1.4.1998 for Rs.1,00,000. This land was sold by him on 2.9.2020 for Rs.30,00,000. The market value of the

land as on 1.4.2001 was Rs. 2,00,000. Expenses on sale were 2% of the transfer price. Compute the Capital Gain for the Assessment year 2021-2022. Assume the Cost Inflation Index for 2020-2021 to be 301.

**PART C**

**III Answer ALL questions either (a) or (b) (1 × 8 = 8)**

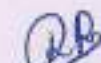
5. (a) Mr. Ram had been living in a house which he purchased in 2001-2002 for Rs.4,00,000. The house was acquired by the Government in July, 2020 and compensation of Rs. 25,00,000 was paid to him. He purchased a residential house in Feb.2020 at Rs.15,00,000. The additional compensation of Rs. 70,000 will be given to him in March, 2022. If he sells the new residential house in October, 2021 at Rs.16,00,000, compute the amount of capital gains chargeable to tax for the Assessment Years 2021-2022 and 2022-2023. The cost inflation index in 2001-2002 was 100 and 2020-2021 it was 301.

(OR)

(b) Mr. Ramu acquired a piece of land and a building forming part of industrial undertaking on 30.11.2016 on partition of HUF. The HUF bought that asset on 30.10.2011 for Rs.2,00,000 and incurred Rs.1,00,000 on its improvements during 2013-2014. The government compulsorily acquired that undertaking by paying Rs.6,00,000 on 1.7.2020. Expenses incurred by him regarding that transaction was Rs.18,000. He purchased another land and building for industrial purpose for Rs.5,00,000 on 2.3.2021. Compute his taxable capital gain (CII - 2011-12: 184, 2013-2014: 220, 2016-17: 264, 2020-21: 301)

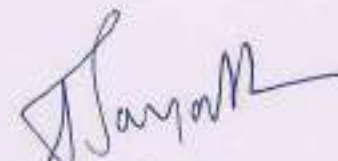
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