



Annai Hajira Women's College

Melapalayam, Tirunelveli-05

(A Unit of As-Sathiq Educational Society)

(Affiliated to Manonmaniam Sundaranar University)

CIA QUESTION PAPERS 2023-2024



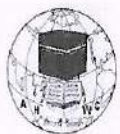
Annai Hajira Women's College

Melapalayam, Tirunelveli-05

(A Unit of As-Sathiq Educational Society)

(Affiliated to Manonmaniam Sundaranar University)

Department of Chemistry



Annai Hajira Women's College
Melapalayam, Tirunelveli - 5



I SEMESTER, I INTERNAL TEST – AUGUST 2023

I B.Sc. CHEMISTRY
FOUNDATION COURSE

Duration: 1Hr

Subject Code:

Marks : 20 marks

Date : 14.08.2023

PART – A (2×1=2 Marks)

I Choose the Correct Answer

1. Number of protons in the nucleus is called -----

- (a) Atomic number
- (b) Mass number
- (c) Periodic number
- (d) Electric charge

2. (±) mixture of lactic acid is known as -----

- (a) Meso mixture
- (b) Racemic mixture
- (c) Simple mixture
- (d) Complex mixture

PART – B (2×5=10 Marks)

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

3. (a) Explain the shapes of atomic orbitals.

(OR)

(b) Define the terms given below and give examples.

- (i) Isotopes (ii) Isobars (iii) Isotones (iv) Atomic number

4. (a) Explain the types of structural isomerism with one example each.

(OR)

(b) (i) Write the IUPAC names of the following compounds:

(A) $H_3CCH(OH)CH_2CH_3$ (B) H_3CCOCH_3 (C) $H_2C=CHCH_3$

(ii) Write the structural formulae of: 3,5-Octadiene

PART – C (1×8=8 Marks)

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

5. (a) Explain the origin of the four quantum numbers. Discuss their significance.

(OR)

(b) Discuss the classification of hydrocarbon compounds with examples on the basis of carbon skeleton.

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(Dr.R.Anuradha & Mrs.M.Pani Malar Hency)

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ANNAI HAJIRA WOMEN'S COLLEGE

Questions	Course Outcome	Level (Revised Bloom's Taxonomy)
1	CO1	R, U
2	CO3	R, U
3.a	CO1	R
3.b	CO1	R,U
4.a	CO3	R, An
4.b	CO3	R, U, Ap
5.a	CO1	R,U
5.b	CO3	R, U, Ap

* R- Remember U-Understand Ap-Apply & An-Analyze



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I SEMESTER, I INTERNAL TEST – AUGUST 2023

I B.Sc. CHEMISTRY
GENERAL CHEMISTRY I

Duration: 1Hr

Subject Code:

Marks : 20 marks

Date : 16.08.2023

PART – A (2×1=2 Marks)

I Choose the Correct Answer

- The electronic configuration of Cr (Z=24) is -----
 (a) (Ar)3d⁴ 4s²
 (b) (Ar)3d⁵ 4s¹
 (c) (Ar)3d⁹ 4s¹
 (d) (Ar)3d¹⁰ 4s²
- In a chemical reaction, reactant molecule undergoing attack is called -----
 (a) Product
 (b) Reagent
 (c) Substrate
 (d) Free radical

PART – B (2×5=10 Marks)

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

3. (a) Derive de Broglie equation.

(OR)

(b) Explain Davisson and Germer Experiment.

4. (a) State Pauli's Exclusion Principle and explain.

(OR)

(b) Discuss Heisenberg uncertainty principle.

PART – C (1×8=8 Marks)

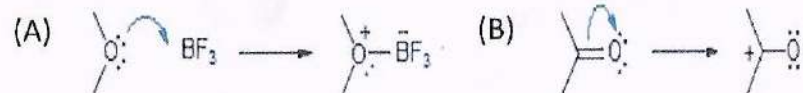
III Answer the following questions choosing either (a) or (b)

5. (a) Derive expression for Bohr's radius and Bohr's energy.

(OR)

(b) (i) Explain the types of bond cleavage with suitable examples.

(ii) What do these arrows represent? (6+2 Marks)



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Questions	Course Outcome	Level (Revised Bloom's Taxonomy)
1	CO1	R,U
2	CO5	U
3.a	CO1	U
3.b	CO1	U
4.a	CO1	R,U
4.b	CO1	U
5.a	CO1	R,U
5.b (i)	CO5	R, U
5.b (ii)	CO5	U, Ap, Ev

* R- Remember U-Understand, Ap-Apply & Ev-Evaluate



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I SEMESTER, I INTERNAL TEST – AUGUST 2023

**I B.Sc. CHEMISTRY
FOOD CHEMISTRY**

Duration: 1Hr
Marks : 20 marks

Subject Code:
Date : 17.08.2023

PART – A (2×1=2 Marks)

I Choose the Correct Answer

- The international adulterant added to milk is -----
(a) Starch
(b) Dextrins
(c) Water
(d) All the above
- The iodine number of pure cow ghee is -----
(a) 34.00
(b) 36.50
(c) 38.10
(d) 38.70

PART – B (2×5=10 Marks)

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

- (a) Define carbohydrate. Write its advantages as food.
(OR)
(b) What is food adulteration? Explain the common adulterants used in wheat, milk and butter.
- (a) Define food. Explain the types of food.
(OR)
(b) What are ghee adulterants? Give two examples. How can we detect the adulterant vegetable oil in ghee?

PART – C (1×8=8 Marks)

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

- (a) Describe the advantages and disadvantages of proteins and vitamins.

(OR)

- (b) Write a note on “detection of adulterated foods by simple analytical techniques”.

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Questions	Course Outcome	Level (Revised Bloom's Taxonomy)
1	CO1	R
2	CO1	R
3.a	CO1	R, U
3.b	CO1	U
4.a	CO1	R
4.b	CO1	R, Ap
5.a	CO1	U, An
5.b	CO1	R, U

* R-Remember, U-Understand, Ap-Apply & An-Analyze



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III SEMESTER, II INTERNAL TEST – August 2023

II B.Sc. CHEMISTRY

FOOD CHEMISTRY

Duration: 1Hr

Subject Code: CSCH32

Marks : 20 marks

Date : 01.09.2023

PART – A

(2×1=2 Marks)

I Choose the Correct Answer

1. Sodium metabisulphite is used as -----

- (a) preservative
- (b) sweetener
- (c) colourant
- (d) thickener

2. Aflatoxin is produced by -----

- (a) Samonella
- (b) Aspergillus niger
- (c) Aspergillus flavus
- (d) Clostridium

PART – B

(2×5=10 Marks)

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

3. (a) What is food poisoning? Explain the food poisoning by chemicals, plants and animals.

(OR)

(b) How will you test the various adulterants present in the following food products.

(i) milk (ii) edible oil (iii) honey

4. (a) Define food additives. Explain the advantages of food additives.

(OR)

(b) Explain the following with suitable examples.

(i) Antioxidants (ii) Flavor and flavor enhancer

PART – C

(1×8=8 Marks)

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

5. (a) Explain the different types of adulterants with suitable examples.

(OR)

(b) Write short notes on

(i) Sweetener (ii) Emulsifiers (iii) Antimicrobial agents.

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Questions	Course Outcome	Level (Revised Bloom's Taxonomy)
1	CO3	An
2	CO4	R
3.a	CO4	R,U
3.b	CO4	U,An
4.a	CO3	R
4.b	CO3	R
5.a	CO4	R
5.b	CO3	R

* R-Remember, U-Understand, Ap-Apply, An-Analyze



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III SEMESTER, II INTERNAL TEST – August 2023

II B.Sc. CHEMISTRY
PHYSICAL CHEMISTRY I

Duration: 1Hr
Marks : 20 marks

Subject Code: CMCH31
Date : 30.08.2023

PART – A (2×1=2 Marks)

I Choose the Correct Answer

1. Viscosity of liquid ----- with rise in temperature.

- (a) Increases
- (b) Decreases
- (c) Constant
- (d) Decomposes

2. Graphite is a -----

- (a) Reactor fuel
- (b) Reactor coolant
- (c) Moderator
- (d) Radio isotope

PART – B (2×5=10 Marks)

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

3. (a) (i) Differentiate between evaporation and boiling.
(ii) Why are liquid drops spherical in shape?

(OR)

(b) Explain the effect of temperature on vapour pressure of a liquid.

4. (a) Differentiate nuclear fission and nuclear fusion

(OR)

(b) How would you construct atom bomb? Predict the basic principle and working of it.

PART – C (1×8=8 Marks)

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

5. (a) Derive Gibbs-Duhem equation.

(OR)

(b) Establish Isotopes, Isobars, Isotones and Isomers with examples.

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Questions	Course Outcome	Level (Revised Bloom's Taxonomy)
1	CO2	Ap
2	CO4	R
3.a	CO2	R
3.b	CO2	R
4.a	CO4	U
4.b	CO4	Ap
5.a	CO2	Ap
5.b	CO4	Ap

* R-Remember, U-Understand, Ap-Apply



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V SEMESTER, II INTERNAL TEST – AUGUST 2023

III B.Sc. CHEMISTRY
ORGANIC CHEMISTRY II

Duration: 1Hr
Marks : 20 marks

Subject Code: CMCH51

Date : 28.08.2023

PART – A

(2×1=2 Marks)

I Choose the Correct Answer

- Complete hydrolysis of cellulose gives -----
(a) L-Glucose
(b) D-Fructose
(c) D-Ribose
(d) D-Glucose
- α -D(+) Glucose and β -D(+)Glucose are -----
(a) Epimers
(b) Anomers
(c) Enantiomers
(d) Conformational isomers

PART – B

(2×5=10 Marks)

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

- (a) Explain the conformational analysis of n-butane using potential energy diagram
(OR)
(b) Draw the structure of tartaric acid using Fischer, Sawhorse and Newman projection formula.
- (a) Why carbohydrates are generally optically active?
(OR)
(b) How will you convert aldose into ketose?

PART – C

(1×8=8 Marks)

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

- (a) Discuss Keto-enol and amide-imide tautomerism .

(OR)

- (i) What is Epimerisation? Give an example.
(ii) Explain Zwitter ion effect.

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Level (Revised Bloom's Taxonomy)

Questions	Course Outcome	Level (Revised Bloom's Taxonomy)
1	CO2	Ap
2	CO3	R
3.a	CO2	R
3.b	CO2	Ap
4.a	CO3	Ap
4.b	CO3	R
5.a	CO2	U
5.b	CO3	R

* R- Remember U-Understand & Ap-Apply

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V SEMESTER, II INTERNAL TEST – August 2023

III B.Sc. CHEMISTRY

PHYSICAL CHEMISTRY II

Duration: 1Hr

Subject Code: CMCH52

Marks : 20 marks

Date : 29.08.2023

PART – A

(2×1=2 Marks)

I Choose the Correct Answer

1. At absolute zero, the entropy of crystalline solid is-----

- (a) Maximum
- (b) Minimum
- (c) Zero
- (d) wGoing on increase

2. The condition for rotational spectroscopy active is -----

- (a) Permanent dipole moment
- (b) Change in dipole moment
- (c) Polarizability
- (d) None of these

PART – B

(2×5=10 Marks)

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

3. (a) Discuss the applications of the Nernst heat theorem.

(OR)

(b) Derive Gibbs-Duhem equation.

4. (a) Compute the effect of isotopic substitution in microwave spectroscopy.

(OR)

(b) Interpret P,Q, R branch lines in IR Spectroscopy.

PART – C

(1×8=8 Marks)

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

5. (a) Derive Gibbs-Helmholtz equation. Write its applications.

(OR)

(b) Explain fundamental, overtone, combination bands & Fermi resonance in detail.

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Questions	Course Outcome	Level (Revised Bloom's Taxonomy)
1	CO2	R
2	CO5	R
3.a	CO2	Ap
3.b	CO2	Ap
4.a	CO5	Ap
4.b	CO5	Ap
5.a	CO2	Ap
5.b	CO5	Ap

* R-Remember, U-Understand, Ap-Apply, An-Analyze, E-Evaluate



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V SEMESTER, II INTERNAL TEST- AUGUST 2023

**III B.Sc. CHEMISTRY
POLYMER CHEMISTRY**

Duration: 1Hr
Marks : 20 marks

Subject Code: CECH51
Date : 30.08.2023

PART – A (2×1=2 Marks)

I Choose the Correct Answer

1. Suitable method of polymerization of aromatic polyamide is

-
- (a) Emulsion polymerization
 - (b) Solution polymerization
 - (c) Melt polycondensation
 - (d) Interfacial polycondensation

2. Pyroxilin is -----

- (a) Acetate rayon
- (b) Viscose rayon
- (c) Cuprammonium rayon
- (d) Nitrocellulose rayon

PART – B (2×5=10 Marks)

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

3. (a) Discuss about bead polymerization technique.

(OR)

(b) Explain the preparation and uses of (i) LDPE (ii) LLDPE

4. (a) Highlight the preparation and uses of the inorganic polymers

- (i) Borazine (ii) Poly (sulphur nitride)

(OR)

(b) Briefly explain the preparation and applications of

- (i) Buna-S rubber and (ii) Neoprene rubber

PART – C (1×8=8 Marks)

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

5. (a) What are silicones? How are they classified? Write their preparations.

(OR)

(b) Explain the preparation and uses of various types of rays.

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Questions	Course Outcome	Level (Revised Bloom's Taxonomy)
1	CO2	R
2	CO3	R
3.a	CO2	R,U
3.b	CO3	R
4.a	CO3	R,U
4.b	CO3	R,U
5.a	CO3	U,Ap
5.b	CO3	U

* R-Remember U-Understand & Ap-Apply



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V SEMESTER, II INTERNAL TEST – AUGUST 2023

III B.Sc. CHEMISTRY
APPLIED CHEMISTRY

Duration: 1Hr
Marks : 20 marks

Subject Code: CECH54
Date : 31.08.2023

PART – A (2×1=2 Marks)

I Choose the Correct Answer

1. The temperature at which the oil ceases to flow is called -----

- (a) Cloud point
- (b) Pour point
- (c) Fire point
- (d) Flash point

2. Chemicals used to kill weeds are called -----

- (a) Insecticide
- (b) Fungicide
- (c) Herbicide
- (d) Pesticide

PART – B (2×5=10 Marks)

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

3. (a) Explain solid lubricants with examples.

(OR)

(b) Explain the uses of adhesives with examples.

4. (a) Give the manufacture of ammonium sulphate $[(NH_4)_2SO_4]$.

(OR)

(b) Write the manufacture and uses of (i) DDT (ii) BHC

PART – C

(1×8=8 Marks)

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

5. (a) Describe the manufacture of (i) Urea (ii) SSP (iii) TSP

(OR)

(b) Write notes on (i) NPK fertilizer (ii) Fungicide.

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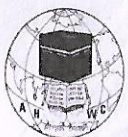
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Questions	Course Outcome	Level (Revised Bloom's Taxonomy)
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4.a	CO3	R, Ap
4.b	CO3	R
5.a	CO3	R,U
5.b	CO3	R, U, Ap

* R- Remember U-Understand Ap-Apply & An-Analyse



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V SEMESTER, II INTERNAL TEST- AUGUST 2023

III B.Sc. CHEMISTRY

PERSONALITY DEVELOPMENT

Duration: 1Hr

Subject Code: CCSB51

Marks : 20 marks

Date : 01.09.2023

PART – A

(2×1=2 Marks)

I Choose the Correct Answer

1. ----- scale is also called summated rating scale.

- (a) Thurstone scale
- (b) Likert scale
- (c) Semantic differentials
- (d) Kelly's Repertory grid

2. The symbol used for communication is called -----

- (a) Encoding
- (b) Channel
- (c) Decoding
- (d) Feedback

PART – B

(2×5=10 Marks)

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

3. (a) What do you mean by Assertiveness? Highlight the assertiveness techniques and explain them.

(OR)

(b) Explain the types of conflicts.

4. (a) Discuss about the classification of Leadership styles.

(OR)

(b) What do you mean by team building? Explain the types of Team.

PART – C

(1×8=8 Marks)

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

5. (a) Elaborately explain the measurement of attitude by various scales

(OR)

(b) Give a detailed account on Communication symbols and its classification

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3.b	CO3	U, Ap
4.a	CO3	U
4.b	CO3	U
5.a	CO2	U
5.b	CO4	U

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III SEMESTER, II INTERNAL TEST – AUGUST 2023

II B.Sc. PHYSICS
ALLIED CHEMISTRY - I

Duration: 1Hr
Marks : 20 marks

Subject Code: CACH11
Date : 31.08.2023

PART – A (2×1=2 Marks)

I Choose the Correct Answer

1. The SI unit for surface tension is -----

- (a) KgS^{-2}
- (b) Nsm^{-2}
- (c) Nm^{-1}
- (d) PaS

2. The crystal system of diamond is -----

- (a) Monoclinic
- (b) Cubic
- (c) Triclinic
- (d) Hexagonal

PART – B (2×5=10 Marks)

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

3. (a) Define polymerization. Give one example each for addition and condensation polymerisation.

(OR)

(b) Compare gaseous state and liquid state.

4. (a) State Boyle's, Charles' and Avogadro's law.

(OR)

(b) Derive Van der Waal's gas equation.

PART – C (1×8=8 Marks)


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

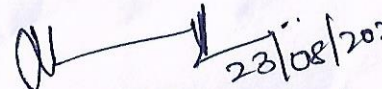
5. (a) What are free radicals? How are they classified? Explain their properties and stability.

(OR)

(b) What are semiconductors? Explain the types of extrinsic semiconductors.

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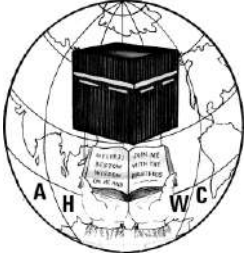

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I SEMESTER, I INTERNAL TEST AUGUST 2023

I B.COM

FUNDAMENTALS OF BUSINESS STUDIES

Duration: 1 Hr.

Subject Code:

Marks: 20

Date: 11.08.2023

PART- A

(2 X 1 =2 marks)

I. Choose the correct answer

1. The modern system of accounting is based on -----

- (a) Double account system (b) Single account system
(c) Single entry system (d) Double entry system

2. Transfer of money or money's worth from one party to another is called -----

- (a) Journal (b) Transaction
(c) Ledger (d) Entry

PART --B

(2 X5 =10 marks)

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

3.(a) List out the objectives of Accounting?

(OR)

(b) What are the advantages of Double Entry system?

4. (a) Mention the differences between Financial accounting and Book-Keeping

(OR)

(b)What are the various limitations of accounting?

PART -C

(1 x 8=8 marks)

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

5. (a) Distinguish between Double entry and Single entry system.

(OR)

(b) Explain the Accounting Conventions in detail.



Question	Course outcome	Level(Revised Bloom's Taxonomy)
1	CO1	R
2	CO1	R
3 (a)	CO1	U
3 (b)	CO1	U
4 (a)	CO1	An
4 (b)	CO1	U
5 (a)	CO1	An
5 (b)	CO1	Ap

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I SEMESTER, I INTERNAL TEST - AUGUST 2023

I B.COM

FINANCIAL ACCOUNTING - I

Duration: 1 Hr.

Subject Code:

Marks: 20

Date: 14.08.2023

PART - A

(2 X 1 = 2 marks)

I. Choose the correct answer

1. Accounting is _____.

- (a) An art (b) a science
(c) Both art and science (d) none of the above

2. Every business transaction has _____.

- (a) One aspect (b) Two aspects
(c) Three aspects (d) Four aspects

PART - B

(2 X 5 = 10 marks)

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

3.(a) What is Accounting? Explain cost concept of accounting.

(OR)

(b) From the information below pass journal entries:

- (i) Salary paid Rs 5,000
(ii) Rent paid to house owner Rs 1,000
(iii) Credit purchase from Mr.A. Rs 2,000
(iv) Discount received Rs 500
(v) Cash Sales Rs 10,000

4.(a) What is Double Entry System of Book Keeping? Differentiate between Double Entry and Single Entry.

(OR)



(b) Enter the following transaction in the sales book of M/s Arun and Post into ledger.

2004

- Feb 1 Sold goods to prince Rs 2,500
Feb 10 Sold to kannan 100 Shirt @ Rs45per shirt, Trade discount 10%
Feb 21 Sold old Furniture to Kumar& Sons Rs 1,200 on credit.

PART - C

(1 x 8 = 8 marks)

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

5.(a) Journalise the following transactions

2005

- Jan21 Withdrew from Bank for personal use Rs 1000
Jan22 Purchased goods and paid by cheque Rs 2500
Jan23 Purchased from Jeya Stores Rs 2000
Jan24 Sold goods to Basker Rs 1000
Jan25 Paid Jeya Stores amount due to them less 10% discount
Jan26 Basker settled his account by giving Rs 950
Jan27 Paid 'Advertisement Charges' to 'The Daily Thanthi' Rs 600
Jan28 Received cheque from Abi Rs 1400
Jan29 The proprietor has brought into the business further cash Rs7000, Furniture worth Rs3000, Stock worth Rs5000 and gave for business purpose Building worth Rs 25,000
Jan30 Got a loan from Murali Rs 5000
Jan31 Drawn from Bank for office use Rs 2700


(OR)

(b) Prepare Trial Balance from the following

	Rs	
Capital	75000	
Sales	1,25,000	
Stock	30,000	

Debtors	40,000
Purchases	50,000
Salary	10,000
Interest (Cr)	5,000
Loan to Rajan	25,000
Bills Payable	9,000
Wages	3,000
Bad debts	2,000
Cash	12,000
Buildings	42,000

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Question	Course outcome	Level(Revised Bloom's Taxonomy)
1	CO1	R
2	CO1	R
3 (a)	CO1	U
3 (b)	CO1	A
4 (a)	CO1	U
4 (b)	CO1	A
5 (a)	CO1	A
5 (b)	CO1	A



Annai Hajira Women's College
Melapalayam, Tirunelveli - 05
I SEMESTER, I INTERNAL TEST AUGUST 2023



IB.COM

PRINCIPLES OF MANAGEMENT

Duration: 1 Hr.

Subject Code:

Marks: 20

Date: 16.08.2023

PART- A

(2 X 1 =2 marks)

I. Choose the correct answer

1. ----- is the art of getting done by a group of people.
(a) Management (b) Administration
(c) Directing (d) Coordinating

2. The father of Scientific Management is -----.

- (a) F.W.Taylor (b) Henry Fayol
(c) Peter F.Drucker (d) Koontz

PART -B

(2 X5 =10 marks)

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

- 3.(a) Explain the characteristics of Management.
(OR)
(b) State the different levels of Management.

4. (a) Discuss whether the Management is science or art.
(OR)
(b) Explain the functions of Management.

PART -C

(1 x 8=8 marks)

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

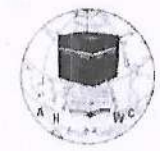
5. (a). Explain the contributions of Henry Fayol .
(OR)
(b) Explain the different sources of recruitment.

Question	Course outcome	Level(Revised Bloom's Taxonomy)
1	CO1	R
2	CO1	R
3 (a)	CO1	U
3 (b)	CO1	U
4 (a)	CO1	An
4 (b)	CO1	Ap
5 (a)	CO1	Ap
5 (b)	CO1	U

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I SEMESTER, I INTERNAL TEST AUGUST 2023

I B.COM

BUSINESS COMMUNICATION

Duration: 1 Hr.

Subject Code:

Marks: 20

Date: 17.08.2023

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) Commum
(c) Comis (d) none

2. The act of influencing others to interpret an idea is known as -----

- (a) Direction (b) Communication
(c) Co ordination (d) Organisation

PART -B (2 X5 =10 marks)

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

3. (a) Explain the process of communication.

(OR)

(b) Explain the purpose of communication.

4.(a) What are the functions of communication?

(OR)

(b) What are the differences between oral and written communication?

PART -C (1 x 8=8 marks)

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

5.(a) List out the principles of communication.

(OR)

(b) Explain about upward communication.



Question	Course outcome	Level(Revised Bloom's Taxonomy)
1	CO1	A
2	CO1	A
3 (a)	CO1	U
3 (b)	CO1	U
4 (a)	CO1	R
4 (b)	CO1	R
5 (a)	CO1	A
5 (b)	CO1	U

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III SEMESTER, II INTERNAL TEST –AUGUST 2023

II B.COM (BATCH I)

ADVANCED FINANCIAL ACCOUNTING

Duration: 1 Hr.

Subject Code: CMCO31

Marks: 20

Date: 30.08.2023

PART- A

(2X1=2marks)

I. Choose the correct answer

1. Profit of Loss on revaluation when a partner retires is transferred to capital/current accounts in

- (a) Capital ratio
- (b) Gaining ratio
- (c) Old profit sharing ratio
- (d) All of these

2. It is necessary to value the goodwill at the time of admission of a new partner and credit should be given -----.

- (a) All partners
- (b) The old partners
- (c) New partner
- (d) None of these

PART –B

(2 X5 =10 marks)

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

3. (a) (i) Distinguish between Sacrificing ratio and Gaining Ratio.
(ii) Write a note on Guarantee by the firm.

(OR)

(b) X, Y and Z are partners sharing profits in the ratio 4:3:2. Y retires from the firm. X and Z agree to share future profits in the ratio of 5:3. Find out the gaining ratio.

4.(a) X and Y share profits and losses in the ratio 3:2 and as January 2020, they admit Z who is have $1/6^{\text{th}}$ share of profit with a guaranteed amount of Rs.25,000. X and Y continue to share profit as before but agree to guarantee any excess over $1/6^{\text{th}}$ of profit going to Z in the ratio of 4:1. The profit of the firm for the year was Rs.1, 20,000. Prepare a profit and loss appropriation account.

(OR)

(b) After including the profits and dealing with drawings, the capital of A, B and C stood at Rs.40,000, Rs.30,000, Rs.20,000 respectively at the end of the year. Subsequently the following omissions were noticed and decided to bring them into accounts.

- (i) Interest on capital 5% p.a.
- (ii) Interest on drawings A-Rs.250, B-Rs.190, C-Rs.130
- (iii) Commission to the manager at 5% on the profit after charging such commission

The profit for the year amounted to Rs.60, 000 and their drawings had been A-Rs.10, 000, B-Rs.7,500, C-Rs.4,500. They shared profits in the ratio of 3:2:1.

PART –C

(1 x 8=8 marks)

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

5.(a) A and B sharing profits in the ratio of 6:4 admit C as a partner with $1/3$ share in profits on 1st January 2020. The terms agreed upon were

- (i) C has to contribute Rs.25,000 as capital
- (ii) Goodwill of the firm valued at Rs.26, 000
- (iii) Land and Building be appreciated by 40%
- (iv) Depreciate Plant and Machinery by 10%
- (v) The provision for doubtful debts was to be increased by Rs.800
- (vi) A liability of Rs.1, 000 included in the Sundry creditors is not likely to arise.

The Balance sheet of A,B as on 31.12.2020 before C's admission was as follows:

Liabilities	Rs.	Asset	Rs.
Sundry creditors	29,000	Cash	9,000
Bills payable	6,000	Land and Building	25,000
Capitals:A-50,000 B-35,000	85,000	Plant & Machinery	30,000
General Reserve	16,000	Stock	15,000
		Sundry debtors 20,000 Less: Provision for doubtful debts 1,000	19,000
		Goodwill	10,000
		Profit & Loss a/c	28,000
	1,36,000		1,36,000

Pass necessary journal entries and prepare important ledger accounts and the new balance sheet as on 1.1.2021 after admission of C.

(OR)

(b) P,Q and R were partners of a firm sharing profits and losses in the ratio of 3:2:1. Set out below was their balance sheet as on 31.12.2019.

Liabilities	Rs.	Asset	Rs.
Bills Payable	15,000	Cash in hand	3,000
Sundry creditors	25,000	Cash at bank	35,000
Capitals: P-80,000 Q-50,000 R-40,000	1,70,000	Bills receivable	11,000
Profit and Loss a/c	30,000	Bad debts	18,000
		Stock	36,000
		Furniture	7,000
		Plant and Machinery	50,000
		Building	80,000
	2,40,000		2,40,000

P retired from the partnership on 1st January 2020 on the following terms:

- Goodwill of the firm was to be valued at Rs.30,000
- Assets are to be valued as under :StockRs.30,000,Plant and machinery Rs.40,000, Buildings Rs.1,00,000
- A provision for doubtful debts be created at Rs.1,000
- Rs.21,500 was to be paid to P immediately and the balance was transferred to his loan account.

Show revaluation account,capitalaccount and balance sheet of the reconstituted partnership.

Question	Course outcome	Level(Revised Bloom's Taxonomy)
1	CO2	R
2	CO3	R
3 (a)	CO2	U
3 (b)	CO2	An
4 (a)	CO2	Ap
4 (b)	CO2	Ap
5 (a)	CO2	Ap
5 (b)	CO3	Ap

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III SEMESTER, II INTERNAL TEST- AUGUST 2023

II B.COM (BATCH I)

BANKING THEORY LAW AND PRACTICE

Duration: 1 Hr.

Subject Code: CMCO32

Marks: 20

Date: 31.08.2023

Part- A (2 X 1 =2 marks)

I. Choose the correct answer

1. Public sector banks can be classified into ----- categories.

(a) 2 (b) 7

(c) 5 (d) 6

2. Financial institutions are classified into -----.

(a) 4 (b) 3

(c) 2 (d) 1

PART -B (2 X5 =10 marks)

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

3. (a).What are scheduled banks?

(OR)

(b) What are EXIM banks?

4.(a) What are industrial banks?

(OR)

(b) List out the banks associated banks of state bank of India.

PART -C (1 x 8=8 marks)

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

5.(a) Explain about the cooperative bank.

(OR)

(b) What are the functions of State bank of India?

Question	Course outcome	Level(Revised Bloom's Taxonomy)
1	CO2	R
2	CO2	R
3 (a)	CO2	R
3 (b)	CO2	U
4 (a)	CO1	U
4 (b)	CO2	U
5 (a)	CO2	U
5 (b)	CO2	U

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PART A(20X1 =20marks)

I. Choose the correct answer

1. An excel workbook is a collection of _____.

- a) Workbooks
- b) Worksheet
- c) Charts
- d) Worksheet and charts

2. Excel files have default extension of _____.

- a) Xls
- b) Xlw
- c) Wk1
- d) 123

3. Which of the following is not a valid Zoom percentage in Excel?

- a) 10
- b) 100
- c) 300
- d) 500

4. The spelling tool is placed on _____ toolbar.

- a) Standard
- b) Formatting
- c) Drawing
- d) Reviewing

5. Comments put in cell are called _____.

- a) Smart Tip
- b) Cell Tip
- c) Wk1
- d) 123

6. Which of the following is not a valid data type in Excel?

- a) Number
- b) Character
- c) Label
- d) Date/time

7. Which menu option can be used to spilt windows into two?

- a) Format->>window
- b) view->>window ->Spilt
- c) Window-> Spilt
- d) view ->Spilt

8. Comments can be added to cells using_____.

- a) Edit->Comments
- b) Insert->Comment
- c) File->Comments
- d) View->Comments

9.You can activate a cell by_____.

- a) Pressing the Tab key
- b) Clicking the cell
- c) Pressing an arrow key
- d) All of the above

10. When you print preview a worksheet?

- a)The entire worksheet is displayed
- b)The selected range is displayed
- c) The active portion of the worksheet is displayed
- d) a,b and c

11. Formatting a cell in Number format you can't set_____.

- a)Decimal Places
- b)Use 1000separator
- c)Negative numbers
- d)Currency Symbol

12.How can you remove borders applied in cells?

- a) Choose None on Border tab of Format cells
- b) Open the list on Border tool in Formatting toolbar then choose first tool (no border)
- c) Both (a)&(b)
- d) none of the above

13. You can set Page Border in Excel from_____.

- a) From Border tab in Format Cells dialog box
- b) From Border tool in formatting toolbar
- c) From Line Style tool in drawing toolbar
- d) You cannot set page border in Excel

14. You can check the conditions against_____ when applying conditional formatting

- a) Cell value
- b) Formula
- c) Both (a) and (b)
- d) None of above

15. When a range is selected, how can you activate the previous cell?

- a) Press the Alt key
- b) Press Tab
- c) Press Enter
- d) None of above

16. Each excel file is a workbook that contains different sheets.

Which of the following cannot be a sheet in workbook?

- a) worksheet
- b) chart sheet
- c) module sheet
- d) datasheet

17. Which of the following is an absolute cell reference?

- a) |A|1
- b) \$A\$1
- c) #a#1
- d) A1

18. Which symbol must all formula begin with?

- a) =
- b) +
- c) (
- d) @

19. Which of the following formulas is not entered correctly?

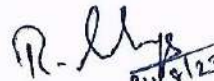
- a) =10+50
- b) =B7*B1
- c) =B7+14
- d) 10+50

20. Which of the following formulas will Excel Not be able to calculate?

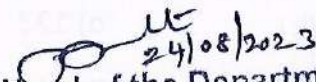
- a) =SUM(Sales)-A3
- b) =SUM(A1:A5)*.5
- c) =SUM(A1:A5)/(10-10)
- d) =SUM(A1:A5)-10

Question	Course outcome	Level (Revised Bloom's Taxonomy)
1	CO1	R
2	CO1	R
3	CO1	R
4	CO1	R
5	CO1	R
6	CO1	R
7	CO2	U
8	CO2	U
9	CO1	R
10	CO1	R
11	CO1	R
12	CO1	R
13	CO1	R
14	CO1	R
15	CO2	U
16	CO2	U
17	CO1	R
18	CO1	R
19	CO1	R
20	CO1	R

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III SEMESTER, II INTERNAL TEST –AUGUST 2023

II B.COM (BATCH I)

BUSINESS COMMUNICATION

Duration: 1 Hr.

Subject Code: CSC031

Marks: 20

Date: 04.09.2023

PART- A

(2 X 1 =2 marks)

I. Choose the correct answer

1. The enquiry letter is written by _____.

- (a) Buyer (b) Seller
(c) Banker (d) Debtor

2. _____ indicates the payment must be made when the goods are delivered.

- (a) Cash on order (b) Cash on delivery
(c) Free on Board (d) Cash with order

PART –B

(2 X 5 =10 marks)

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

3. (a) List out the points to be remembered while drafting a letter of enquiry.

(OR)

(b) What is the purpose of a sales letter?

4.(a). Define the terms:

- i. Free on Board
ii. Free on rail
iii. At Station

(OR)

(b) Draft a letter to order bulk quantity of raincoats and umbrellas from Rainbow Private Ltd., Chennai.

PART –C (1 x 8=8 marks)

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

5.(a) Under what circumstances circular letters are drafted?

(OR)

(b) Write a letter to West Coast Paper Mills, Calcutta asking for a copy of their catalogue. Also ask their best terms for the supply of their paper.

Question	Course outcome	Level(Revised Bloom's Taxonomy)
1	CO2	R
2	CO2	U
3 (a)	CO2	U
3 (b)	CO2	U
4 (a)	CO2	U
4 (b)	CO2	Ap
5 (a)	CO2	U
5 (b)	CO2	Ap

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V SEMESTER, II INTERNAL TEST – AUGUST 2023

III B.COM (BATCH I)

COST ACCOUNTING

Duration: 1 Hr.

Subject Code: CMC052

Marks: 20

Date: 29.08.2023

Part- A

(2 X 1 = 2 marks)

I. Choose the correct answer

- The re-order level is just above the -----
 (a) Average level (b) Minimum level
 (c) Maximum level (d) Danger level
- ABC analysis concentrates more on -----
 (a) Costly items (b) Number of items
 (c) Less costly items (d) Quantity

PART –B

(2 X 5 = 10 marks)

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

- (a). Discuss the different kinds of inventories.

(OR)

- (b) What are the various factors that affect the stock levels?

- (a) Find out the EOQ

Annual consumption - 3600kg

Cost of placing and receiving per order 1,000

Annual carrying cost per kg 20

(OR)

- (b) Calculate Maximum level, minimum level, and reordering level from the following data

Re- order quantity	1500 weeks
Re- order period	4 to 6 weeks
Maximum consumption	400 units per week
Normal Consumption	300 units per week
Minimum Consumption	250 units per week

PART –C

(1 x 8=8 marks)

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

- (a) What are the methods of pricing material issues? Give its advantages and disadvantages?

(OR)

- (b) The stock in hand of a material as on 1st September 2020 was 500 units at Re 1 per unit. The following purchase and its issues were subsequently made. Prepare the store ledger Account (a) FIFO (b) LIFO Methods

Purchased

September 6	100 units at Rs.1.10
September 20	700 units at Rs.1.20
September 27	400 units at Rs.1.30
October 13	1000 units at Rs.1.40
October 20	500 units at Rs.1.50
November 17	400 units at Rs 1.60

Issued

September 9	500 units
September 22	500 units
September 30	500 units
October 15	500 units
October 22	500 units
November 11	500 units

Question	Course outcome	Level(Revised Bloom's Taxonomy)
1	CO2	R
2	CO2	R
3 (a)	CO2	U
3 (b)	CO2	U
4 (a)	CO2	A
4 (b)	CO2	A
5 (a)	CO2	A
5 (b)	CO2	A

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V SEMESTER, II INTERNAL TEST - AUGUST 2023

III B.COM (BATCH I)

BUSINESS LAW

Duration: 1 Hr.

Marks: 20

Subject Code: CMCO53

Date: 30.08.2023

PART- A

(2 X 1 = 2 marks)

I. Choose the correct answer

1. An error in causa makes the contract-----.

- (a) Void
- (b) Voidable
- (c) Valid
- (d) None of these

2. _____ is an order of the court restraining a person from doing some act.

- (a) Damages
- (b) Suit for performances
- (c) Injunction
- (d) Exemplary damages

PART -B

(2 X 5 = 10 marks)

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

3. (a).What are the differences between undue influence and coercion?

(OR)

(b).What is meant by misrepresentation? What are the difference between fraud and misrepresentation?

4.(a). Differentiate void and voidable contract.

(OR)

(b).Explain the difference between contract of Insurance and waging agreement.



Department of Commerce

PART -C

(1 x 8=8 marks)

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

5.(a).Explain the various agreements that opposed in public policy.

(OR)

(b).What do you understand by mistake? What are the effects of mistakes on the validity of contracts? *****

Question	Course outcome	Level(Revised Bloom's Taxonomy)
1	CO2	R
2	CO2	U
3 (a)	CO3	U
3 (b)	CO3	U
4 (a)	CO3	U
4 (b)	CO3	Ap
5 (a)	CO3	U
5 (b)	CO3	Ap

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Melapalayam, Tirunelveli - 05

V SEMESTER, II INTERNAL TEST - AUGUST 2023

III B.COM (BATCH I)

RESEARCH METHODOLOGY

Duration: 1 Hr.

Subject Code: CMC054

Marks: 20

Date: 31.08.2023

PART- A

(2 X 1 =2 marks)

I. Choose the correct answer

1. The choice of research design is influenced by the -----.

- (a) Decision makers' attitude towards risk
- (b) Size of the research budget
- (c) Types of decision being faced
- (d) All of these

2. Random sampling is also referred to as -----.

- (a) Quality sampling
- (b) Non-probability sampling
- (c) Probability sampling
- (d) none of the above

PART -B

(2 X5 =10 marks)

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

3.(a) What are the essentials of research design?

(OR)

(b) What do you mean by descriptive and diagnostic designs?

4. (a) Explain the Non-Probability of sampling method.

(OR)

(b) Write a note on Snowball sampling method.



PART -C

(1 x 8=8 marks)

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

5.(a). Discuss the components of research design.

(OR)

(b) What are the basic principles to be followed in Experimental research design?

Question	Course outcome	Level(Revised Bloom's Taxonomy)
1	CO2	R
2	CO3	R
3 (a)	CO2	U
3 (b)	CO3	U
4 (a)	CO3	An
4 (b)	CO3	An
5 (a)	CO2	An
5 (b)	CO2	U

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Melapalayam, Tirunelveli - 65

V SEMESTER, II INTERNAL TEST – AUGUST 2023

III B.COM (BATCH I)

INCOME TAX LAW & PRACTICE

Duration: 1 Hr.

Subject Code: CECO51

Marks: 20

Date: 01.09.2023

PART -A

(2X 1 = 2 marks)

I. Choose the correct answer

- Employer's Contribution towards RPF is taxable in excess of _____.
 - 9% of salary
 - 9.5% of salary
 - 12% of salary
 - 15% of salary
- A standard deduction of _____ of the net annual value is allowed as deduction U/S 24.

(a) 25%	(b) 30%
(c) 35%	(d) 40%

PART -B

(2 X 5 =10 marks)

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

- (a). Mr.Vishnu is working in a company at Karur (population is 15 lakh). He furnishes the following information, Compute his taxable salary for the previous year 2022-2023:
 - Basic Salary Rs. 20,000 p.m.
 - DA (60% enters into retirement benefits) Rs.5,000 p.m.
 - She is provided with rent free accommodation. The fair rental value is Rs.4,000 p.m. Rent of furniture provided in the accommodation is Rs.600 p.m.
 - Employer's Contribution towards RPF is Rs.40,000.
 - Interest on RPF @15% is Rs.7,500.
 - Professional Tax paid by the employer Rs.3,000.

(OR)

(b). Mr.R retires from a company on 4th January 2023 after serving 16 years. At the time of retirement, his basic salary was Rs.88,000 per month and he was entitled to dearness allowance of Rs.16,000 p.m. On the retirement, he received Rs.12,00,000 as gratuity. He is covered under the payment of Gratuity Act. Compute the taxable amount of gratuity.

4.(a). Define: Unrealized rent, Composite rent.

(OR)

(b) From the following particulars compute income from house property:

- Municipal Value Rs.20,000 p.a.
- Fair rental Value Rs. 30,000 p.a.
- Standard rent Rs. 36,000 p.a.
- Actual rent Rs. 3,500 p.m.
- Municipal tax is 20% of the municipal value. As per agreement 50% of the municipal tax is paid by the tenant.

PART -C

(1 x 8=8 marks)

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

- (a). Mrs.Silvy is a manager in a private Ltd., at Chennai. She furnished the following particulars for the previous year 2022-2023. Compute his taxable salary.

i. Basic Salary	Rs.18,000 p.m.
ii. D.A. (50% forms part of salary)	Rs.6,000 p.m.
iii. CCA	Rs.2,000 p.m.
iv. Medical allowance	Rs.1,000 p.m.
v. House rent allowance	(Actual rent is Rs.5,000 p.m.) Rs.4,000 p.m.
vi. Entertainment Allowance	Rs.2,000 p.m.

vii. She is provided with a small car for both official and personal use. Expenses including driver's salary are met by the employer.

viii. She contributes 15% of her salary towards RPF. Her employer also contributes an equivalent amount.

ix. Interest on RPF is credited at 14% Rs.4,900.

x. Professional Tax paid by Mrs. Silvy Rs.1,500.


(OR)

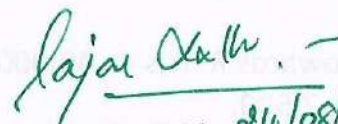
(b). From the following particulars, calculate Gross Annual value:

Particulars	House I	House II	House III
Municipal value	Rs.18,000	Rs. 15,000	Rs.18,000
Fair rental value	Rs.15,000	Rs.18,000	Rs.24,000
Standard rent	Nil	Rs.24,000	Nil
Actual rent	Rs.24,000	RS.12,000	Rs.36,000
Unrealised rent	Rs.2,000	Rs.1,000	Rs.6,000
Vacancy	1 month	-	3 months

Question	Course outcome	Level(Revised Bloom's Taxonomy)
1	CO2	R
2	CO3	R
3 (a)	CO2	An
3 (b)	CO2	Ap
4 (a)	CO3	U
4 (b)	CO2	An
5 (a)	CO2	An
5 (b)	CO1	An

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V SEMESTER, II INTERNAL TEST – AUGUST 2023

III B.COM (BATCH I)

PERSONALITY DEVELOPMENT

Duration: 1 Hr.

Subject Code: CCSB51

Marks: 20

Date: 02.08.2023

Part- A

(2 X 1 =2 marks)

I. Choose the correct answer

1. ----- is the process of co-operating with others to come to an agreement.

- (a) Negotiation (b) conflict management
(c) Assertiveness (d) Self Monitoring

2. ----- is a conflict within the individual

- (a) Individual conflict (b) functional conflict
(c) Dysfunctional conflict (d) goal conflict

PART –B

(2 X5 =10 marks)

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

3. (a).Describe the process of perception.

(OR)

(b) What are the barriers to change attitude?

4.(a) Explain about the types of negotiation.

(OR)

(b) Explain about the principles of negotiation.

PART –C

(1 x 8=8 marks)

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

5.(a) Summarize the techniques for assertiveness.

(OR)

(b) What are the levels of conflict?

Question	Course outcome	Level(Revised Bloom's Taxonomy)
1	CO3	R
2	CO3	R
3 (a)	CO3	R
3 (b)	CO3	R
4 (a)	CO2	R
4 (b)	CO2	R
5 (a)	CO2	U
5 (b)	CO2	R

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Department of Commerce (Batch II)

III SEMESTER, II INTERNAL TEST – AUGUST 2023

II B. Com – ADVANCED FINANCIAL ACCOUNTING

Duration: 1 Hr.

Subject Code: CMCO31

Marks: 20

Date: 30.08.2023

Part- A (2 X 1 =2 marks)

I. Choose the correct answer

1. The premium paid by the new partner is shared by the old partners in:

- a) Sacrificing Ratio
- b) Gaining Ratio
- c) Capital Ratio
- d) Profit Sharing Ratio

2. In the absence of partnership agreement, interest on partner's loan is provided at:

- a) 4%
- b) 5%
- c) 6%
- d) 7%

PART –B (2 X5 =10 marks)

II. Answer the following question, choosing either (a) or (b)

3. (a) R and S are partners, sharing profits in the ratio of 3:2. A new partner Q is admitted for 1/7 of the profit. Compute the New ratio and sacrificing ratio.

(OR)



(b) From the following compute the amount of goodwill of the firm, based on the "three year's purchase" of last four year's average profit Profit during the last four years:

	Rs
I Year	10,000
II Year	15,000
III Year	12,000
IV Year	18,000

4. (a) Arun retires from the partnership in January 1, 2021. Other partners settle the amount due to Arun in three equal installments with interest at 5%. The amount due to Arun on Jan 1 2021 was Rs.30,000. Prepare the loan account of Arun.

(OR)

(b) Write Specimen entries with regard to Methods of Joint Life Policy.

PART –C (1 x 8=8 marks)

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

5. (a) The following is the balance sheet of X & Y. Sharing profits is in the ratio of 3:2 as on 31.12.2020.

Liabilities	Rs.	Assets	Rs.
Creditors	10,000	Cash	1,500
Capital X	40,000	Debtors	6,500
Y	30,000	Stock	18,000
		Building	34,000
		Furniture	20,000
	80,000		80,000

They agreed to admit Z into partnership with a capital of Rs.25,000. The new profit sharing ratio is 5:3:2. The following revaluation was made.

- (i) Stock to be depreciated at 10%
- (ii) Provision for Bad debts is to be Rs.500
- (iii) Furniture to be depreciated at 5%
- (iv) Buildings is valued at Rs.40,000

Pass journal entries and prepare Revaluation account and Balance Sheet after admission of Z.

(OR)

(b) Raja and /Rani are partners in a firm sharing profits and losses in the ratio 3:2. The balance sheet on 31.12.2008 was as follows:

Liabilities	Rs.	Assets	Rs.
Creditors	30,000	Cash in hand	60,000
Capital Raja	60,000	Debtors	50,000
Rani	40,000		
General Reserve	50,000	Stock	25,000
		Machinery	25,000
		Furniture	20,000
	1,80,000		1,80,000

Rani retires from the firm on 1.1.2010 & Raja is to run the business on the following revaluation

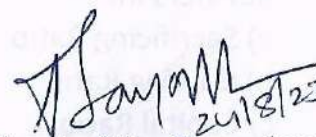
- (i) Depreciate Furniture at 5%
- (ii) Depreciate Stock by 10%
- (iii) Provision for Bad debts on Debtors at 5%
- (iv) Rani is to be paid in cash on the date.


Prepare Revaluation A/c, Capital A/c and Balance Sheet

Q.No.	Course Objective	Level (Revised Bloom's Taxonomy)
1.	CO1	R
2.	CO2	R
3.a.	CO1	AP
3.b.	CO1	AP
4.a.	CO2	AP
4.b.	CO2	R
5.a.	CO1	AP
5.b.	CO2	AP

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Department of Commerce (Batch II)

III SEMESTER, II INTERNAL TEST – AUGUST 2023

II B.COM

BUSINESS COMMUNICATION

Duration: 1 Hr.

Subject Code: CSCO31

Marks: 20

Date: 02.09.2023

Part- A

(2 X 1 =2 marks)

I. Choose the correct answer

1. When there is delay in execution of the order, the letter to be drafted is known as -----

- (a) Collection letter (b) Sales letter
(c) Complaint letter (d) Adjustment letter

2. A ----- is a voluntary act on the part of a trader (or) manufacturer

- (a) offer (b) acceptance
(c) quotation (d) enquiry

PART –B

(2 X 5 =10 marks)

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

3. (a) Briefly explain the guiding principles of collection.

(OR)

(b) What are the elements of the Good letter of complaint?

4. (a) Distinguish between offer and quotation.

(OR)

(b) Write an enquiry letter to enquire the price for readymade garments.

PART –C

(1 x 8=8 marks)

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

5.(a) List out the various stages in collection.

(OR)

(b) Explain the terms used in Quotations.

Question	Course outcome	Level(Revised Bloom's Taxonomy)
1	CO2	R
2	CO2	R
3 (a)	CO2	R
3 (b)	CO2	U
4 (a)	CO2	U
4 (b)	CO2	U
5 (a)	CO2	R
5 (b)	CO2	U

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Department of Commerce (Batch II)

III SEMESTER, II INTERNAL TEST -- AUGUST 2023

II B. Com – COMPUTER APPLICATIONS IN BUSINESS

Duration: 1 Hr.

Subject Code: CACOP1

Marks: 20

Date: 04.09.2023

Part- A

(20 X 1 =20)

I. Choose the correct answer

1. Switch to the next window from current window used _____

- (a) CTRL+TAB (b) CTRL+TAB
(c) CTRL+TAB (d) END Key

2. Shortcut to create new document is _____.

- (a) Ctrl + F (b) Ctrl + N
(c) Ctrl + O (d) Ctrl + S

3. Shortcut to quit Microsoft Word, PowerPoint, Access, Excel, etc. is _____?

- (a) Ctrl + W (b) Alt + Q (c) Alt + F4 (d) Ctrl + Q

4. By which shortcut can we increase the font size of the selected text?

- (a) Ctrl + Up Arrow (b) Ctrl + Up Arrow
(c) Ctrl + Shift + > (d) Ctrl + Shift + Up Arrow

5. Which shortcut key is used to remove all borders?

- (a) Shift + _ (Underline) (b) Shift + F1
(c) Ctrl + Right Arrow key (d) Ctrl + Shift + _ (Underline)

6. Which key is used to go to a specific cell?

- (a) F2 (b) F1 (c) F5 (d) F3



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7. Which key is used to create chart in MS Excel?

- (a) Shift+F4 (b) F11 (c) Shift+End (d) F12

8. Ctrl + _____ is used to underline the selected text?

- (a) Z (b) Y (c) X (d) U

9. Which key is used to edit the highlighted cell?

- (a) F6 (b) F3 (c) F2 (d) F9

10. In Excel which shortcut key is used to go to the formulas tab?

- (a) Alt+M (b) Ctrl+M (c) Ctrl+C (d) Ctrl+B

11. Which shortcut key is used to end the slideshow?

- (a) Home (b) Ctrl+E
(c) Ctrl+End (d) Esc

12. Which shortcut key is used to start the presentation from the beginning?

- (a) F5 (b) F3 (c) F2 (d) F1

13. Which shortcut key is used to go to the next slide in PowerPoint presentation?

- (a) Page Up (b) Home
(c) Tab (d) Page down

14. In PowerPoint which shortcut key is used to open the transitions tab

- (a) Ctrl+C (b) Alt+K (c) Ctrl+X (d) Alt+B

15. Which keys is used for select all in MS Word?

- (a) Ctrl+A (b) Ctrl+Z (c) Ctrl+P (d) Ctrl+C

16 Which keys is used for superscript in MS Word?

- (a) Ctrl+shift++ (b) Ctrl+shift +B
(c) Ctrl+shift +- (d) Ctrl+ shift+C

17. Short cut key to remove paragraph or character formatting in MS- WORD is

- (a) Ctrl + Spacebar (b) Ctrl + M
(c) Ctrl + D (d) Ctrl + A

18. Short cut key for paste special

- (a) Shift+ Alt +V (b) Shift+Ctrl +B
(c) Ctrl+ Alt+V (d) Ctrl+Alt+Z

19. Which short cut key is used to use Center alignment in MS Word?

- (a) Ctrl+ L (b) Ctrl+ R
(c) Ctrl+ J (d) Ctrl+ E

20. Which key is used for find and replace?

- (a) Ctrl+ F (b) Ctrl+ R
(c) Ctrl+ A (d) Ctrl+ E

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sQ.NO.	Course Objective	Level (Revised Bloom's Taxonomy)
1.	CO1	R
2.	CO1	R
3.	CO1	R
4.	CO1	R
5.	CO2	R
6.	CO2	R
7.	CO2	R
8.	CO2	R
9.	CO3	R
10.	CO3	R
11.	CO3	R
12.	CO3	R
13.	CO4	R
14.	CO4	R
15.	CO4	R
16.	CO4	R
17.	CO5	R
18.	CO5	R
19.	CO5	R
20.	CO5	R

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V SEMESTER, II INTERNAL TEST – AUGUST 2023

III B.COM BATCH II

COST ACCOUNTING



Duration: 1 Hr.

Subject Code: CMCO52

Marks: 20

Date: 29 .08.2023

Part- A

(2 X 1 =2 marks)

I. Choose the correct answer

1. Lighting expenses in a factory is included in -----

- (a) Administration overhead (b) Works overhead
(c) Selling overhead (d) Distribution overhead

2. Factory overhead should be absorbed on the basis of -----

- (a) Relationship to cost incurred (b) Direct labour cost
(c) Machine hours (d) Direct wages

PART –B

(2 X5 =10 marks)

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

3. (a). The production department of a factory furnishes the following information for the month of October

Material used	Rs.50,000
Direct wages	Rs.30,000
Labour hours worked	30,000

Overhead chargeable to the department Rs.25,000. For an order executed by the department during the period, the relevant information was as under:

Material used	Rs.5,000
Direct wages	Rs.3,500
Labour hours worked	1,600

Calculate the overhead charges chargeable to the job by the direct material cost percentage rate.

(OR)

(b) Using the following data calculate the earnings of a worker under Halsey Plan, rate per hour Rs.2, Standard time 20 hours; Time taken 15 hours.

4.(a) From the following data, prepare a statement showing the labour cost per man day of eight hours.

- a) Basic salary and dearness allowance Rs.300 per month.
b) Leave salary to the workman 6 percent of the basic and D.A
c) Employer's contribution to Provident Fund 6% of (a) plus (b)
d) Employee's contribution to P.F 6% of (a) and (b)
e) Pro-rata expenditure on amenities to labour Rs.25 per head per month.
f) Number of working hours in a month 200.

(OR)

(b) The following particulars related to a manufacturing company which has three production departments P1, P2, P3 and two service department S1 and S2

Particulars	Departments				
	P1	P2	P3	S1	S2
Total departmental overhead as per primary distribution Rs.	6,300	7,400	2,800	4,500	2,000

The company decided to charge the service departments cost on the basis of following percentages:

Service Depts.	Production Depts.			Service Depts.	
	P1	P2	P3	S1	S2
S1	40%	30%	20%	-	10%
S2	30%	30%	20%	20%	-

PART -C

(1 x 8=8 marks)

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

5.(a) Kumar Ltd. has three production departments P1, P2,P3 and two service department S1 and S2. The following figures are extracted from the records of the company.

Rent and Rates Rs.5000, Indirect wages Rs.1,500, Depreciation of Machinery Rs.10,000. General Lighting Rs.600 Power Rs.1,500 and Sundries Rs.10,000.

	Total	P1	P2	P3	S1	S2
Floor Space (sq.meters)						
Light point	10,000	2,000	2,500	3,000	2,000	500
Direct Wages (Rs)	60	10	15	20	10	5
H.P of Machines	10,000	3000	2000	3,000	1500	500
Value of machinery (Rs.)	150	60	30	50,	10	-
	2,50,000	60000	80,000	1,00,000	5000	5000

Apportion the costs to various departments on the most equitable basis by preparing a Primary Departmental Distribution summary.

(OR)

(b) On the basis of the following information, calculate the earnings of A and B under Taylor's differential piece rate system

Standard production : 10 units per hour

Normal time rate : Rs.5 per hour

Differential piece rate to be applied

80% of piece rate for below standard performance

120% of piece rate for performance at or above the standard

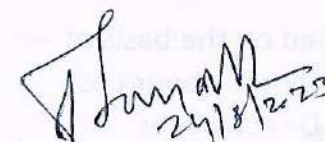
Actual performance

A produced 80 units in a day of 10 hours

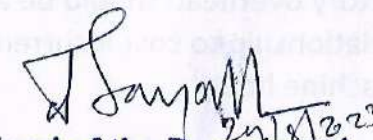
B produced 110 units in a day of 10 hours

Question	Course outcome	Level(Revised Bloom's Taxonomy)
1	CO3	R
2	CO3	R
3 (a)	CO3	A
3 (b)	CO3	A
4 (a)	CO3	A
4 (b)	CO3	A
5 (a)	CO3	A
5 (b)	CO3	A

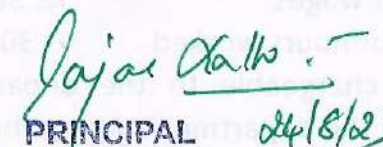
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Department of Commerce (Batch II)

V SEMESTER, II INTERNAL TEST – AUGUST 2023

III B. Com – RESEARCH METHODOLOGY

Duration: 1 Hr.

Subject Code: CMCO54

Marks: 20

Date: 31.08.2023

Part- A (2 X 1 =2 marks)

I. Choose the correct answer

1.is a blue print of action.

- a) Research design b) Methodology
c) Objectives d) Chapter scheme

2.Sampling is a non- probability sampling.

- a) Convenience b) Cluster
c) Systematic d) Sequential

PART –B (2 x 5 = 10 marks)

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

3.(a) What are the characteristics of a good Research Design?

(OR)

(b) What are the Essentials of Sampling?

4.(a) Write a short note on

- i) Sampling errors ii) Non-Sampling errors

(OR)

(b) Difference between Exploratory and Descriptive Design.

PART –C (1 x 8 = 8 mark)

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

5. (a) Explain the different types of Research Design.

(OR)

(b) Explain the Methods of Sampling.

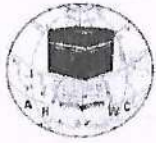
Q.No.	Course Objective	Level (Revised Bloom's Taxonomy)
1.	CO2	R
2.	CO3	R
3.a.	CO2	R
3.b.	CO3	R
4.a.	CO2	R
4.b.	CO3	R
5.a.	CO2	R
5.b.	CO3	R

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Annai Hajira Women's College

Melapalayam Tirunelveli - 05

Department of Commerce (Batch II)

V SEMESTER, II INTERNAL TEST – AUGUST 2023

III B. Com

INCOME TAX LAW & PRACTICE

Duration: 1 Hr.

Marks: 20

Subject Code: CECO51

Date: 01.09.2023

(2 X 1 =2 marks)

Part- A

I. Choose the correct answer

1. Gratuity received by a Government Employee is:

- a) Fully exempted b) Fully Taxable
c) Party Exempted d) Exempted upto ₹10, 00,000

2. Statutory exemption in case of compensation on retrenchment:

- a) ₹.3, 00,000 b) ₹5, 00,000
c) ₹.6, 00,000 d) ₹ 4, 00,000

PART –B (2 X5 =10 marks)

II. Answer the following question, choosing either (a) or (b)

(a) 3. (a) Mr. Mani has been provided a car by his employer. The cost of car to the employer was ₹3,50,000 and maintenance cost incurred by the employer ₹30,000 p.a. Driver salary is paid by the employer ₹3,000 p.m. Find taxable value of perquisite for Mr.Mani for the Previous Year 2020-2021, If the car is used for

- (i) Office purpose
(ii) personal purpose
(iii) Both the purpose

(OR)



(b) (a)What are the different kinds of provident fund of employees? And state the income tax Provisions regarding each fund.

4. (a) Find out the gross annual value from the following details pertaining to a house property which is let out for residence?

Municipal Value	₹80,000
Fair Rental Value	₹80,500
Standard Rental under Rent Control Act	₹ 87,500
Actual Rent Received	₹ 85,000

(OR)

(b) Explain the Retirement Benefits with provisions.

PART –C (1 x 8=8 marks)

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

5. (a) Mr. Jone receives the following income. He is working as a driver with a transport company at Sikkim for the assessment year 2020-2021. Compute Taxable salary.

- (i) Salary ₹20,000p.m
(ii) Dearness Allowance ₹1500p.m
(iii) Bonus equal to one month pay.
(iv) Remote locality allowance ₹1500p.m
(v) Allowance to meet his personal expenses while on duty ₹3000p.m
(vi) Children education allowances ₹195p.m (for 3 children @₹65p.m per child)
(vii) One son of Mr.Jone lives in a hostel for studies and the employer pays ₹400p.m to meet hostel expenditure.
(viii)Entertainment allowance ₹450 p.m.

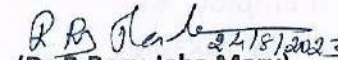
(OR)

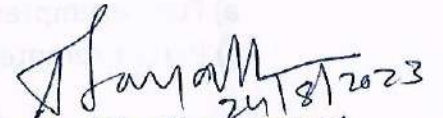
(b) Compute Taxable income under the head salary of Mr.X for the assessment year 2023-2024.

- (a) Salary ₹60,000 p.m
- (b) D.A ₹10,000 p.m
- (c) Entertainment allowance ₹.1000 p.m
- (d) Employer's contribution to recognized provident fund ₹88,800. His own contribution was ₹88,800.
- (e) Interest @10% p.a on credit balance of recognized P.F. amounted to ₹50,000.
- (f) City compensatory allowance ₹500 p.m
- (g) Medical allowance ₹1200 p.m
- (h) He has provided with large car for both for official and personal use. Employer's bears all the expenses of the car.
- (i) He is provided an unfurnished house by the employer in a city (Population 12lakh). The fair rental value of the house is ₹90,000 p.a. Employer charges ₹2000 from him per month as rent.

Q.No.	Course Objective	Level (Revised Bloom's Taxonomy)
1.	CO2	R
2.	CO2	R
3.a.	CO2	AP
3.b.	CO2	AP
4.a.	CO3	AP
4.b.	CO2	R
5.a.	CO2	AP
5.b.	CO2	AP

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Melapalayam Tirunelveli -05

Department of Commerce (Batch II)

V SEMESTER, II INTERNAL TEST -- AUGUST 2023

III B. Com

PERSONALITY DEVELOPMENT

Duration: 1 Hr.

Subject Code: CCSB51

Marks: 20

Date: 02.09.2023

Part- A (2 X 1 = 2 marks)

I. Choose the correct answer

1. Prejudice is type of

(a) Motivation

(b) Attitude

(c) Inspiration

(d) Instinct

2. A group of people working with common objectives or goals is known as a _____

(a) Team

(b) Team work

(c) Group

(d) Club

PART -B (2 X 5 =10 marks)

II. Answer the following question, choosing either (a) or (b)

3. (a) What are the benefits of self monitoring?

(OR)

(b) Explain the measurement of attitude.

4. (a) What are the qualities of a leader?

(OR)

(b) State the types of negotiation.



Department of
Commerce

PART -C

(1 x 8=8 marks)

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

5. (a) Explain the techniques of assertiveness.

(OR)

(b) Describe the Conflict management.

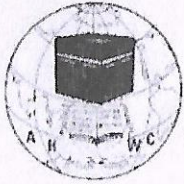
Q.No.	Course Objective	Level (Revised Bloom's Taxonomy)
1.	CO1	R
2.	CO2	R
3.a.	CO1	R
3.b.	CO1	U
4.a.	CO2	R
4.b.	CO2	R
5.a.	CO1	J
5.b.	CO2	J

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Department of Commerce (Batch II)

III SEMESTER, II INTERNAL TEST – AUGUST 2023
II B.Sc Physics, II B.Sc Chemistry & II B.Sc Mathematics
NME - Consumer Protection

Duration: 1 Hr.
Marks: 20

Subject Code: CNCO32
Date: 02.09.2023

Part- A (2 X 1 =2 marks)

I. Choose the correct answer

1. may be defined as the exchange of goods or services in terms of money.

- a) Product b) Price
c) Service d) Purchase

2. Marketing begins and ends with.....

- a) Seller b) Consumer
c) Product d) Supplier

PART –B (2 x 5 = 10 marks)

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

3.(a) Define Consumer.

(OR)

(b) What are the functions of Labelling?

4. (a) What are the advantages of poor after sales services?

(OR)

(b) Explain the characteristics of Consumer

PART –C

(1 x 8 = 8 mark)

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

5. (a) State the Steps in advertising process.

(OR)

(b) Explain the different methods of Pricing.

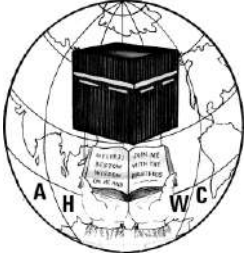
Q.No.	Course Objective	Level (Revised Bloom's Taxonomy)
1.	CO3	R
2.	CO2	R
3.a.	CO3	R
3.b.	CO3	R
4.a.	CO3	R
4.b.	CO2	R
5.a.	CO3	R
5.b.	CO2	R

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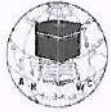
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I SEMESTER, I INTERNAL TEST-AUGUST- 2023

I B.Sc - COMPUTER SCIENCE

PYTHON PROGRAMMING



Date: 14.08.2023

Time: 1 hr

Subject Code:

Marks: 20

Part-A

I. Choose the correct answer (2X1=2Marks)

1. _____ function is used to concatenate string with a separator.

- a) +
- b) join()
- c) %
- d) ,

2. _____ symbol is used for docstrings in Python.

- a) ' "
- b) " "
- c) "" ""
- d) None of these

PART - B (2X5=10 Marks)

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

3. a) List out the limitations of Python.

(OR)

3. b) Build programs to explain the simple operations on numbers.

4. a) Define Escape Sequences. Demonstrate it with an example.

(OR)

4. (b) Illustrate input statements with an example.

PART - C (1 X 8 = 8 Marks)

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

5. a) List out the features of Python Programming.

(OR)

5. b) Make use of example programsto explain the concept of built-in data types.

Q. No.	Course Outcome	Bloom's Level
1	CO1	R
2	CO1	R
3. a	CO1	R
3. b	CO1	Ap
4. a	CO1	U
4. b	CO1	U
5. a	CO1	R
5. b	CO1	Ap

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I SEMESTER, I INTERNAL TEST-AUGUST- 2023

I B.Sc – COMPUTER SCIENCE

DISCRETE MATHEMATICS



Date: 16.08.2023

Time: 1 hr

Subject Code:

Marks: 20

Part- A

I. Choose the correct answer (2X1=2Marks)

1. Which of the following is an ordered collection of objects?

- a) Class
- b) Set
- c) Relation
- d) Function

2. How many subsets are there in the Power set of an empty set?

- a) Two
- b) Zero
- c) One
- d) none of these

PART – B (2X5=10 Marks)

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

3. a) Of the members of three athletic teams in a school, 21 are in the cricket team, 26 are in the hockey team and 29 are in the football team. Among them, 14 play hockey and cricket, 15 play hockey and football, and 12 play football and cricket. Eight play all the three games. Infer the total number of members in the three athletic team

(OR)

3. b) If $A = \{2, 4, 6, 8\}$ and $B = \{6, 8, 10, 12\}$. Solve

- i) $A \cup B$
- ii) $A \cap B$
- iii) $|A|$
- iv) $P|A \cup B|$
- v) U

4. a) Examine whether the given sets are equal sets:

$A = \{1, 2, 3, 4\}$ and $B = \{2, 4, 1, 3\}$

(OR)

4. b) Show the cardinality of set $A = \{x:1 \leq x \leq 20 \text{ and } x \text{ is divisible of } 2/5\}$

PART –C

(1 X 8 = 8 Marks)

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

5. a) Solve the following questions on sets:

- i) Write the subsets for the set $A = \{1, 3, 5, 7\}$
- ii) Write the set $A = \{1, 2, 3, 4, 5, \dots\}$ in set-builder form.
- iii) If $A = \{1, 3, 5, 7, 9, 11\}$ and $B = \{1, 2, 3, 13\}$ then find $A - B$ and $A \cap B$
- iv) Find $A \cup (B \cap C)$, if $A = \{1, 3, 5\}$, $B = \{2, 4, 6\}$ and $C = \{1, 5, 7\}$.

(OR)

5.b) Classify the different types of sets.

Q. No.	Course Outcome	Bloom's Level
1	CO1	R
2	CO1	R
3. a	CO1	U
3. b	CO1	Ap
4. a	CO1	An
4. b	CO1	R
5. a	CO1	Ap
5. b	CO1	U

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I SEMESTER, I INTERNAL TEST- AUGUST - 2023

I B.Sc – COMPUTER SCIENCE

OFFICE AUTOMATION



Date: 17.08.2023

Time: 1 hr

Subject Code:

Marks: 20

Part- A

I. Choose the correct answer (2X1=2Marks)

1. RAM is an example of _____.

- a) Secondary memory
- b) Primary memory
- c) Main memory
- d) Both (a) and (b)

2. All of the following are examples of storage devices except

- a) Hard disk drives
- b) USB drive
- c) Printers
- d) DVD drives

PART – B (2X5=10 Marks)

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

3. a) Explain about CPU and monitor.

(OR)

3. b) List out the types of computer memory.

4. a) Illustrate the types of programming languages in detail.

(OR)

4. b) Classify the types of printers.

PART – C (1 X 8= 8 Marks)

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

5. a) Summarize briefly about Input devices.

(OR)

b) Classify Operating systems in detail.

Q. No.	Course Outcome	Bloom's Level
1	CO1	R
2	CO1	R
3. a	CO1	U
3. b	CO1	R
4. a	CO1	U
4. b	CO1	U
5. a	CO1	U
5. b	CO1	U

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I SEMESTER, I INTERNAL TEST-AUGUST- 2023

I B.Sc – COMPUTER SCIENCE

PROBLEM SOLVING TECHNIQUES

Date: 18.08.2023

Time: 1 hr

Subject Code:

Marks: 20

Part- A

I. Choose the correct answer (2X1=2Marks)

1. The unit that performs the arithmetic and logical operations on the stored numbers is known as _____.

- a. Arithmetic logic unit b. Control unit
c. Memory unit d. Both (a) and (b)

2. Which of the following is not a type of programming language?

- a. Assembly language b. Natural language
c. Machine language d. High-level language

PART – B (2X5=10 Marks)

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

3. a) Classify the characteristics of computers.

(OR)

3. b) List the differences between application software and system software.

4. a) Outline the types of computers.

(OR)

b) Explain the generations of computers.

PART – C (1 X 8= 8 Marks)

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

5. a) List out the features of good programming languages.

(OR)



5.b) Categorize the following translators:

i. Interpreters

ii. Compiler

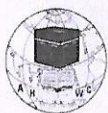
Q. No.	Course Outcome	Bloom's Level
1	CO1	R
2	CO1	R
3. a	CO1	U
3. b	CO1	R
4. a	CO1	R
4. b	CO1	U
5. a	CO1	R
5. b	CO1	An

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V SEMESTER, II INTERNAL TEST-AUGUST- 2023

III B.Sc – COMPUTER SCIENCE

PERSONALITY DEVELOPMENT

Date: 01.09.2023

Time: 1 hr

Subject Code: CCSB51

Marks: 20

Part- A

I. Choose the correct answer (2X1=2Marks)

1. Select the internal factors which affect perception.

a. Intensity b. Experience c. Size d. Status

2. The objective of Negotiation is ____.

a. to earn Profit

b. to get employment

c. to reach an agreement or reconciliation

d. All the above

PART – B (2X5=10 Marks)

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

3. a) Define the steps in Perception process.

(OR)

3. b) List the methods of attitude change in personality.

4. a) Classify the different types of Teams.

(OR)

4. b) What are the techniques of Assertiveness?



PART –C

(1x8=8 marks)

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

5. a) Analyze conflict and its types.

(OR)

b) Examine the theory of Leadership qualities.

Q. No.	Course Outcome	Bloom's Level
1	CO2	R
2	CO3	R
3. a	CO2	R
3. b	CO2	R
4. a	CO3	U
4. b	CO3	R
5. a	CO3	An
5. b	CO3	An

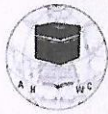
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V SEMESTER, II INTERNAL TEST - AUGUST- 2023

III B. Sc - COMPUTER SCIENCE

CLOUD COMPUTING

Date: 31.08.2023

Time: 1 hr

Subject Code: CECS53 Marks: 20

Part- A

I. Choose the correct answer (2X1=2 Marks)

1. Which of the architectural layer is used as front end in cloud computing?

- a. Cloud
- b. Soft
- c. Client
- d. All of the above

2. What are the Core Components of a Web Service?

- a. XML and XML Schema
- b. SOAP and HTTP
- c. WSDL and XML
- d. ESB and WS-policy

PART - B (2X5=10 Marks)

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

3. a) What is BPM? Illustrate the life cycle of BPM.

(OR)

3. b) Explain para- virtualization. How it is different from full virtualization?

4. a) What is Xen Type 1 hypervisor? Demonstrate the major components of Xen with a suitable diagram.

(OR)

4. b) What are web services? How they are important is SOA?



PART - C

(1x8=8 marks)

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

5. a) Define Virtualization. What are its types? (OR)

5. b) With a suitable diagram, infer the elements of a SOA message.

Q. No.	Course Outcome	Bloom's Level
1	CO2	R
2	CO4	R
3. a	CO2	R
3. b	CO3	U
4. a	CO3	U
4. b	CO4	R
5. a	CO3	R
5. b	CO4	U

R-Remembering, U-Understanding, Ap-Appling, An-Analyzing, Ev-Evaluating, Cr-Creating

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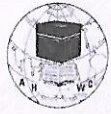
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V SEMESTER, II INTERNAL TEST- AUGUST - 2023

III B.Sc - COMPUTER SCIENCE

PHP and MySQL

Date: 30.08.2023

Time: 1 hr

Subject Code: CMCS53

Marks: 20

Part- A

I. Choose the correct answer (2X1=2Marks)

1. Which of the following function is used to set cookie in PHP?

a) createcookie() b) makecookie() c) setcookie() d) setsession()

2. Which of the following function is used to sort an array in descending order?

a) sort() b) asort() c) dsort() d) rsort()

PART - B (2X5=10 Marks)

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

3. a) Illustrate Foreachloop with relevant example.

(OR)

3. b) Classify the different types of Array functions.

4. a) DemonstrateSessions in PHP.

(OR)

b) Define the file file_get_contents, parse_ini_file, fseek.



PART -C

(1x8=8 Marks)

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

5. a) Illustrate Cookies in PHP with examples.

(OR)

b) Explain in detail about file handling in PHP.

Q. No.	Course Outcome	Bloom's Level
1	CO2	R
2	CO2	R
3. a	CO2	R
3. b	CO5	U
4. a	CO2	U
4. b	CO2	R
5. a	CO2	U
5. b	CO2	U

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V SEMESTER, II INTERNAL TEST - AUGUST - 2023

III B. Sc – COMPUTER SCIENCE

DATA COMMUNICATION AND COMPUTER NETWORKS

Date: 29.08.2023

Time: 1 hr

Subject Code: CMCS52

Marks: 20



Part- A (2X1=2 Marks)

I. Choose the correct answer

1. Which cable is made of glass or plastic that transmit signals in the form of light?

- a) Coaxial b) Twisted-Pair
c) Wireless d) Fiber-optic

2. In which layer Circuit Switching is used?

- a) Session b) Network
c) Physical d) Application

Part- B (2X5=10 Marks)

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

3. (a) Classify the various technologies of Digital Subscriber Line. (OR)

3. (b) Dissect the standards of Dial up Modems.

4. (a) Classify Circuit Switched Network. (OR)

4. (b) Illustrate (i) Radiowaves
(ii) Microwaves

Part – C

(1x8=8 Marks)

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

5. (a) Analyze any two categories of Guided Media.

(OR)

5. (b) Explain about Multiplexing.

Q. No.	Course Outcome	Bloom's Level
1	CO3	R
2	CO4	R
3. a	CO3	U
3. b	CO3	An
4. a	CO4	An
4. b	CO3	U
5. a	CO3	An
5. b	CO3	U

R-Remembering, U-Understanding, Ap-Appling, An-Analyzing, Ev-Evaluating, Cr-Creating

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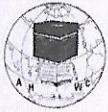
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Melapalayam, Tirumelveli - 627 005

III SEMESTER, II INTERNAL TEST- AUGUST - 2023

II B.Sc – COMPUTER SCIENCE

DIGITAL DESIGN



Date: 01.09.2023

Time: 1 hr

Subject Code: CSCS31

Marks: 20

Part- A

I. Choose the correct answer (2X1=2Marks)

1. ____ is the group of 1s in 4 cells of a K – map called?
a. Pair b. Quad c. Octet d. Octal
2. What value is to be considered for A.A = ____?
a. 0 b. 1 c. Either 0 or 1 d. A

PART – B (2X5=10 Marks)

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

3. a) Solve by SOP Method $Y=F(A,B,C)=\sum m(3,5,6,7)$
(OR)
3. b) Define Pairs, Quads, Octets, Don't care condition
4. a) Illustrate Multiplexers with diagram.
(OR)
4. b) Classify the BCD to decimal Decoders and Seven Segment Indicator.

PART – C

(1x8=8 Marks)

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

5. a) i. Solve by SOP Method $Y=F(A,B,C,D)=\sum m(0,2,5,9,11)$
ii. Solve by POS Method $Y=F(A,B,C,D)=\sum M(1,4,9,12)$

(OR)

5. b) Demonstrate Demultiplexer in detail with neat diagram.

Q. No.	Course Outcome	Bloom's Level
1	CO2	R
2	CO2	R
3. a	CO3	Ap
3. b	CO2	R
4. a	CO3	U
4. b	CO3	An
5. a	CO3	Ap
5. b	CO3	R

R-Remembering, U-Understanding, Ap-Appling, An-Analyzing, Ev-Evaluating, Cr-Creating

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III SEMESTER, II INTERNAL TEST-AUGUST- 2023

II B.Sc – COMPUTER SCIENCE

SCRIPTING LANGUAGES



Date: 31.08.2023

Time: 1 hr

Subject Code: CACS31

Marks: 20

PART- A

I. Choose the correct answer (2X1=2Marks)

1. The ___ button allows selecting only one out of a group of options.

a.Submit b.Radio c. Checkbox d. All the above

2. The color that fades using top to bottom or side to side is called ___.

a. Color Gradient b. Linear Gradient
c. Radial gradient d. none of these

PART – B (2X5=10 Marks)

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

3. a) Define File upload tag in HTML 5 with an example.

(OR)

3. b) List out color Gradients in Advanced CSS.

4. a) Tell how Textbox can have Rounding corners in CSS.

(OR)

4. b) Infer Data Validation in HTML 5.

PART – C (1x8=8 marks)

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

5. a) Discuss styling images in HTML and multimedia .

(OR)

b) Summarize the technique of adding shadows for box model and text in CSS.

Q. No.	Course Outcome	Bloom's Level
1	CO2	R
2	CO2	R
3. a	CO2	R
3. b	CO4	R
4. a	CO4	R
4. b	CO3	U
5. a	CO4	U
5. b	CO4	U

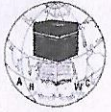
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III SEMESTER, II INTERNAL TEST-AUGUST- 2023

II B.Sc – COMPUTER SCIENCE

JAVA PROGRAMMING

Date: 30.08.2023

Time: 1 hr

Subject Code: CMCS31

Marks: 20

Part- A

I. Choose the correct answer

(2X1=2Marks)

1. An _____ is a group of related data items that share a common name.

- a) array
- b) index
- c) package
- d) none of these

2. An _____ supports the concept of multiple inheritance.

- a) array
- b) interface
- c) package
- d) none of these

PART – B (2X5=10 Marks)

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

3. a) Define arrays. Explain one dimensional array with an example.

(OR)

3. b) Illustrate String methods with an example.

4. a) List out the differences between classes and interfaces.

(OR)

4. (b) How will you implement interfaces? Explain it with an example.



PART –C

(1 X 8 = 8 Marks)

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

5. a) Construct a program to illustrate the concept of extending interfaces.

(OR)

5.b) Define Package. Create your own package and explain it with an example.

Q. No.	Course Outcome	Bloom's Level
1	CO2	R
2	CO2	R
3. a	CO2	U
3. b	CO2	U
4. a	CO2	R
4. b	CO2	U
5. a	CO2	Cr
5. b	CO2	Cr

R-Remembering, U-Understanding, Ap-Appling, An-Analyzing, Ev-Evaluating, Cr-Creating

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Department of Mathematics

I B.Sc., PHYSICS /CHEMISTRY

I SEMESTER, I INTERNAL TEST – AUGUST 2023

ALGEBRA AND DIFFERENTIAL EQUATIONS



Date: 18.08.2023

Subject code:

Time: 1Hr.

Marks: 20

PART –A

(2 X 1=2 marks)

I. Choose the correct answer

1. The equation $ax^5 + bx^4 + cx^3 + dx^2 + ex + f$ can have ---- roots and no more.

a) 5 b) 3 c) 4 d) none of these

2. If α, β, γ are the roots of the equation $x^4 + px^3 + qx^2 + rx + s = 0$, then $\sum \alpha\beta\gamma = - - - - -$

a) $-p$ b) q c) $-r$ d) s

PART –B

(2 X 5=10 marks)

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

3. a) Solve the equation $x^4 - 5x^3 + 4x^2 + 8x - 8 = 0$ given that one root is $1 - \sqrt{5}$.

(OR)

b) If one root of the equation $2x^3 - 11x^2 + 38x - 39 = 0$ is $2 - 3i$, then solve the equation.

4. a) Solve the equation $4x^3 - 24x^2 + 23x + 18 = 0$ given that the roots are in arithmetic progression.

(OR)

b) If $\alpha, \beta, \gamma, \delta$ are the roots of $x^4 + ax^2 + bx + c = 0$, then find the value of $\sum \left(\frac{\beta + \gamma + \delta - \alpha}{2\alpha^2} \right)$.

PART –C

(1 X 8=8 marks)

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

5. a) Show that the roots of the equation $px^3 + qx^2 + rx + s = 0$ are in arithmetic progression iff $2q^3 + 27p^2s = 9pqr$.

(OR)

b) Show that the roots of the equation $px^3 + qx^2 + rx + s = 0$ are in G.P. iff $r^3p = q^3s$.

Questions	Course Outcome	Level (Revised Bloom's Taxonomy)
1	CO1	U
2	CO1	U
3(a)	CO1	Ap
3(b)	CO1	Ap
4(a)	CO1	Ap
4(b)	CO1	Ap
5(a)	CO1	Ap
5(b)	CO1	Ap

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Department of Mathematics

III B.Sc., MATHEMATICS

V SEMESTER, II INTERNAL TEST – AUGUST 2023

PERSONALITY DEVELOPMENT

Date: 25.08.2023

Time: 1Hr.

Subject code: CCSB51

Marks: 20

PART –A

(2 X 1=2 marks)

I. Choose the correct answer

1. _____ is the ability to express one's feelings and assert one's rights while respecting the feelings and rights of others.

- (a) Attitude (b) Assertiveness
(c) Perception (d) Negotiation skills

2. _____ is the process of co-operating with others to come to an agreement.

- (a) Leadership (b) Negotiation
(c) Self monitoring (d) Team Development

PART –B (2 X 5=10 marks)

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

3. (a) Explain the different types of attitudes.

(OR)

(b) What are the benefits of assertiveness?

4. (a) Write short notes on leadership styles.

(OR)

(b) Explain the types of Conflict.

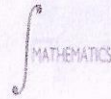
PART –C (1 X 8=8 marks)

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

5. (a) Discuss the team development in detail.

(OR)

(b) Discuss the barriers in communication and how to overcome it.



Questions	Course Outcome	Level (Revised Bloom's Taxonomy)
1	CO2	R
2	CO3	R
3(a)	CO2	U
3(b)	CO2	U
4(a)	CO3	U
4(b)	CO3	U
5(a)	CO3	U
5(b)	CO4	U

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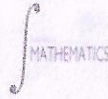
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Department of Mathematics

III B.Sc., MATHEMATICS

V SEMESTER, II INTERNAL TEST – AUGUST 2023

LINEAR ALGEBRA

Date: 28.08.2023

Subject code: CMMMA51

Time: 1Hr.

Marks: 20

PART –A

(2 X 1=2 marks)

I. Choose the correct answer

1. $\text{Dim } M_2(R) = \text{-----}$

- (a) 0 (b) 1 (c) 2 (d) None

2. If $\text{rank } T = \text{dim } V$, then nullity T is -----

- (a) 0 (b) $\text{dim } v$ (c) 1 (d) None

PART –B

(2 X 5=10 marks)

II. Answer the following

3) (a) Prove that any two vector spaces of the same dimension over a field F are isomorphic.

(OR)

(b) If V is a finite dimensional vector space over a field F and A is a subspace of V , Prove that there exists a subspace B of V such that $V = A \oplus B$.

4. (a) Obtain the matrix representing the linear transformation $T: V_3(R) \rightarrow V_3(R)$ given by $T(a, b, c) = (3a, a - b, 2a+b+c)$ with respect to the standard basis $\{e_1, e_2, e_3\}$.

(OR)

(b) Find the linear transformation $T: V_3(R) \rightarrow V_3(R)$ determined by the matrix $\begin{pmatrix} 1 & 2 & 1 \\ 0 & 1 & 1 \\ -1 & 3 & 4 \end{pmatrix}$ with respect to the standard basis $\{e_1, e_2, e_3\}$.

PART –C

(1 X 8=8 marks)

III. Answer the following

5. (a) Let V be a finite dimensional vector space over a field F . Let W be a subspace of V . Then prove (i) $\text{dim } V \leq \text{dim } W$, (ii) $\text{dim } \frac{V}{W} = \text{dim } V - \text{dim } W$

(OR)

(b) Let V be a finite dimensional vector space over a field F . If A and B are subspaces of V then Prove that $\text{dim } (A+B) = \text{dim } A + \text{dim } B - \text{dim } A \cap B$

Questions	Course Outcome	Level (Revised Bloom's Taxonomy)
1	CO2	U
2	CO3	U
3(a)	CO2	R
3(b)	CO2	R
4(a)	CO3	Ap
4(b)	CO3	Ap
5(a)	CO2	R
5(b)	CO2	R

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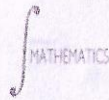
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Department of Mathematics

III B.Sc., MATHEMATICS

V SEMESTER, II INTERNAL TEST – AUGUST 2023

REAL ANALYSIS

Date: 29.08.2023

Subject code: CMMA52

PART –A

Time: 1Hr.

Marks: 20

(2 X 1=2 marks)

I. Choose the correct answer

1. If a subset A of a metric space M is nowhere dense in M then

- a) $\text{Int } A = \emptyset$ b) $\text{Int } \bar{A} = \emptyset$ c) $\bar{A} = \emptyset$ d) $\bar{A} = M$

2. If f is a continuous function then

- a) $f(\bar{A}) = \overline{f(A)}$ b) $f(\bar{A}) \supseteq \overline{f(A)}$ c) $f(\bar{A}) \subseteq \overline{f(A)}$ d) $f(A) = \overline{f(A)}$

PART –B

(2 X 5=10 marks)

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

3. (a) Prove that l_2 is complete.

(OR)

(b) If A and B are subsets of R. Prove that $\overline{A \times B} = \bar{A} \times \bar{B}$.

4. (a) Show that the function $f: R \rightarrow R$ defined by $f(x) = \sin x$ is uniformly continuous on R.

(OR)

(b) The metric spaces $(0, 1)$ and $(0, \infty)$ with usual metric are Homeomorphic.

PART –C (1 X 8=8 marks)

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

5. (a) State and Prove Cantor's Intersection Theorem.

(OR)

(b) Prove that f is continuous iff inverse image of every open set is open.

Questions	Course Outcome	Level (Revised Bloom's Taxonomy)
1	CO2	R
2	CO3	U
3(a)	CO2	R
3(b)	CO2	Ap
4(a)	CO3	U
4(b)	CO3	U
5(a)	CO3	R
5(b)	CO3	R

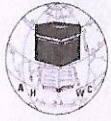
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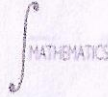
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Department of Mathematics

V SEMESTER, II INTERNAL TEST – AUGUST 2023

III B.Sc., MATHEMATICS

STATICS



Date: 30.08.2023

Subject code: CMM53

Time: 1Hr.

Marks: 20

PART –A

(2 X 1=2 marks)

I. Choose the correct answer

- The sign of the moment of F is always
(a) Negative (b) Positive (c) (a) or (b) (d) None
- If three coplanar forces acting on a rigid body keep it in equilibrium, they must be –
(a) concurrent (b) parallel
(c) perpendicular (d) concurrent or parallel

PART –B

(2 X 5 =10 marks)

II. Answer the following.

- (a) A uniform plank of length 2a and weight W is supported horizontally on two vertical props at a distance b apart. The greatest weight that can be placed at the two ends in succession without upsetting the plank are W_1 and W_2 respectively.

$$\frac{W_1}{W + W_1} + \frac{W_2}{W + W_2} = \frac{b}{a}$$

(OR)

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

- (a) 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 makes the same angle θ with the horizon. Show that the reaction at the hinge is $\frac{W}{4} \sqrt{8 + \operatorname{cosec}^2 \theta}$

(OR)

- (b) A rod whose centre of gravity divides it into portions of lengths a, b rests within a smooth sphere, inclined at an angle θ to the horizontal. If it subtends an angle 2α at the centre of the sphere, show that $(b + a) \tan \theta = (b - a) \tan \alpha$.

PART –C

(1 X 8=8 marks)

III. Answer the following.

- (a) State and prove Varignon's theorem of moments.

(OR)

- (b) Equal weights P and P are attached to two strings ACP and BCP passing over a smooth peg C. AB is a heavy beam of weight W, whose centre of gravity is 'a' ft from A and 'b' ft. from B. Show that AB is inclined to the horizon at an angle $\tan^{-1} \left[\frac{a-b}{a+b} \cdot \tan \left(\sin^{-1} \frac{W}{2P} \right) \right]$.

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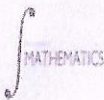
Questions	Course Outcome	Level (Revised Bloom's Taxonomy)
1	CO2	U
2	CO3	U
3(a)	CO2	R
3(b)	CO2	R
4(a)	CO3	R
4(b)	CO3	Ap
5(a)	CO2	R
5(b)	CO3	R

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Department of Mathematics

V SEMESTER, II INTERNAL TEST – AUGUST 2023

III B.Sc., MATHEMATICS

Integral Transforms and Z Transforms

Date: 31.08.2023

Time: 1Hr.

Subject code: CMMA54

Marks: 20

PART – A

(2 X 1=2 marks)

I. Choose the correct answer

1. $F_s \left[\frac{1}{x} \right] =$

- a) $\frac{\pi}{2}$
- b) 2π
- c) $\sqrt{\frac{2}{\pi}}$
- d) $\sqrt{\frac{\pi}{2}}$

2. $F_s[x]$ in $(0, \pi)$ is _____

- a) $(-1)^n \frac{\pi}{n}$
- b) $(-1)^n \frac{\pi}{n+1}$
- c) $(-1)^{n+1} \frac{\pi}{n!}$
- d) $(-1)^{n+1} \frac{\pi}{n}$

PART – B

(2 X 5=10 marks)

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

3. a) Show that $F_c(f'(x)) = -\sqrt{\frac{2}{\pi}} f(0) + sF_s(s)$
(OR)

b) Find $F_s \left(\frac{e^{-ax}}{x} \right)$

4. a) Find the finite Fourier Cosine Transform of $f(x) = \left(1 - \frac{x}{\pi}\right)^2$
(OR)

b) Find the finite Fourier Sine Transform of $f(x) = \cos kx$ in $0 < x < \pi$

PART – C

(1 X 8=8 marks)

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

5. a) Find $F_s(x^{n-1})$ and $F_s(x^{n-1})$, $0 < n < 1$. Show that $\frac{1}{\sqrt{x}}$ is self Reciprocal under both

(OR)

b) Find the finite FST & FCT of $f(x) = x^2$ in $0 < x < l$

Questions	Course Outcome	Level (Revised Bloom's Taxonomy)
1	CO2	R
2	CO3	U
3(a)	CO2	R
3(b)	CO2	Ap
4(a)	CO3	Ap
4(b)	CO3	Ap
5(a)	CO2	Ap
5(b)	CO3	Ap

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Department of Mathematics
V SEMESTER, II INTERNAL TEST – AUGUST 2023

III B.Sc., MATHEMATICS
DISCRETE MATHEMATICS

Date: 01.09.2023

Time: 1Hr.

Subject code: CEMA52

Marks: 20

PART –A

(2 X 1=2 marks)

I. Choose the correct answer

1. $\neg(P \wedge Q) =$ _____.

- (a) $\neg P \vee \neg Q$
- (b) $\neg P \wedge \neg Q$
- (c) $P \wedge Q$
- (d) None

2. $P \vee (\neg P \wedge Q) =$ _____

- (a) T
- (b) F
- (c) $\neg Q \vee P$
- (d) None

PART –B

(2 X 5=10 marks)

II. Answer the following

3. (a) Write the conjunctive normal form of the formula

- (i) $\neg(P \vee Q) \Leftrightarrow (P \wedge Q)$
- (ii) $P \wedge (P \rightarrow Q)$

(OR)

(b) Show that the following are equivalent formulas

- (i) $P \vee (P \wedge Q) \Leftrightarrow P$
- (ii) $P \vee (\neg P \wedge Q) \Leftrightarrow P \vee Q$

4. (a) Obtain PDF of $(P \wedge Q) \vee ((\neg P \wedge R) \vee (Q \wedge R))$. Also find PCNF.

(OR)

(b) Obtain disjunctive normal form of $P \wedge \neg(Q \wedge R) \vee (((P \wedge Q) \vee \neg R) \wedge P)$.

PART –C

(1 X 8=8 marks)

III. Answer the following

5. (a) Obtain the product of sums canonical form of the formula $(\neg P \rightarrow R) \wedge (Q \leftrightarrow P)$

(OR)

(b) Obtain the principal disjunctive normal form of $\neg P \vee Q$. Also find PCNF by using truth table and using formulae.

Questions	Course Outcome	Level (Revised Bloom's Taxonomy)
1	CO2	U
2	CO2	U
3(a)	CO2	R
3(b)	CO2	R
4(a)	CO2	R
4(b)	CO2	Ap
5(a)	CO2	R
5(b)	CO2	R

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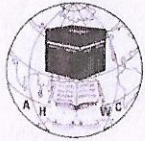
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Melapalayam, Tirunelveli - 05

Department of Mathematics

III B.Sc., MATHEMATICS

V SEMESTER, II INTERNAL TEST – AUGUST 2023 OPERATIONS RESEARCH I

Date: 02.09.2023

Subject code: CEMA54

Time: 1Hr.

Marks: 20

PART –A

(2 X 1=2 marks)

I. Choose the correct answer

1. Which one of the following comes under the artificial variable technique?

- a) Dual Simplex method
- b) Charnes Penalty method
- c) Hungarian method
- d) Simplex method

2. The assignment problem is said to be balanced if

- a) $m < n$
- b) $m > n$
- c) $m = n$
- d) $m \leq n$

PART –B

(2 X 5=10 marks)

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

3. a) Write Two-phase simplex algorithm

(OR)

b) Prove that Dual of the dual is the primal

4. a) Solve by Simplex method using the dual of the following LPP

Maximize $z = 4x_1 + 2x_2$ subject to

$x_1 + x_2 \geq 3; x_1 - x_2 \geq 2; x_1, x_2 \geq 0.$

(OR)

b) A company has three jobs to be done on three machines. Each job must be done on one and only machine. The cost of each job on each machine is given in the following table. Give the job assignment, which will minimize the cost.

	A	B	C
X	4	6	8
Y	2	3	4
Z	4	8	5

PART – C

(1 X 8=8 marks)

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

5. a) Write the Dual Simplex algorithm

(OR)

b) Solve the following LPP by Dual Simplex method

Minimize $z = 6x_1 + x_2$ subject to

$2x_1 + x_2 \geq 3; x_1 - x_2 \geq 0; x_1, x_2 \geq 0.$

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MELAPALAYAM - 627 005.

Questions	Course Outcome	Level (Revised Bloom's Taxonomy)
1	CO1	U
2	CO4	U
3(a)	CO1	R
3(b)	CO2	R
4(a)	CO2	Ap
4(b)	CO4	Ap
5(a)	CO2	R
5(b)	CO2	Ap

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Department of Mathematics

II B.Sc., MATHEMATICS

III SEMESTER, II INTERNAL TEST – AUGUST 2023

VECTOR CALCULUS

Date: 01.09.2023

Subject code: CSMA31

Time: 1Hr.

Marks: 20

PART –A (2 X 1=2 marks)

I. Choose the correct answer

1. A vector \vec{f} is called harmonic vector if _____

- a) $\nabla \vec{f} = 0$
- b) $\nabla^2 \vec{f} = 0$
- c) $\vec{f} = 0$
- d) None

2. Parametric equation of the line joining (0, 0, 0) and (2, 1, 1) can be written as _____

- a) $x = 2t, y = t, z = t$ where $0 \leq t \leq 1$
- b) $x = t, y = 2t, z = t$ where $0 \leq t \leq 1$
- c) $x = t, y = t, z = 2t$ where $0 \leq t \leq 1$
- d) None

PART –B (2 X 5=10 marks)

II. Answer the following

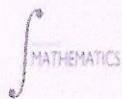
3. a) If \vec{a} is a constant vector and $\vec{r} = x\vec{i} + y\vec{j} + z\vec{k}$, and $r = |\vec{r}|$ then prove that $\nabla r^n = n r^{n-2} \vec{r}$.

(OR)

b) If $\vec{v} = \vec{w} \times \vec{r}$ where \vec{w} is a constant vector and $\vec{r} = x\vec{i} + y\vec{j} + z\vec{k}$ then show that $\frac{1}{2} \text{curl } \vec{v} = \vec{w}$.

4. a) Find the work done by the force $\vec{F} = 3xy\vec{i} - 5z\vec{j} + 10x\vec{k}$, along the curve C, $x = t^2 + 1, y = 2t^2, z = t^3$ from $t = 1$ to $t = 1$

(OR)



b) Evaluate $\int_C \vec{f} \cdot d\vec{r}$ Where $\vec{f} = (x^2 + y^2)\vec{i} + (x^2 - y^2)\vec{j}$ and C is the curve $y = x^2$ joining (0, 0) and (1,1).

PART –C

(1 X 8=8 marks)

III. Answer the following

5. a) If $\vec{r} = x\vec{i} + y\vec{j} + z\vec{k}$, then show that $\nabla^2 \left(\frac{f(r)}{r} \right) = f''(r) + \frac{2}{r} f'(r)$

(OR)

b) Evaluate $\iint_S \vec{f} \cdot \vec{n} \, dS$ where $\vec{f} = (x + y^2)\vec{i} - 2xz\vec{j} + 2yz\vec{k}$ and S is the surface of the plane $2x + y + 2z = 6$ in the first octant.

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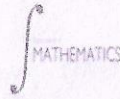
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Questions	Course Outcome	Level (Revised Bloom's Taxonomy)
1	CO2	U
2	CO3	U
3(a)	CO2	R
3(b)	CO2	R
4(a)	CO3	R
4(b)	CO3	Ap
5(a)	CO2	R
5(b)	CO3	R

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Department of Mathematics



II B.Sc., MATHEMATICS
III SEMESTER, II INTERNAL TEST – AUGUST 2023
STATISTICS I

Date: 31.08.2023
 Subject code: CAST11

Time: 1Hr.
 Marks: 20

PART –A (2 X 1=2 marks)

I. Choose the correct answer

1. The correlation is perfect and positive if $Y = \dots\dots\dots$
 (a) 1 (b) -1 (c) 0 (d) none
2. $E(c) = \dots\dots\dots$
 (a) 0 (b) 1 (c) c (d) cx

PART –B (2 X 5 =10 marks)

II. Answer the following.

3. (a) Calculate the Rank Correlation coefficient for the following data
- | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| X | 5 | 2 | 8 | 1 | 4 | 6 | 3 | 7 |
| Y | 4 | 5 | 7 | 3 | 2 | 8 | 1 | 6 |
- (OR)
- (b) Explain the properties of Regression Coefficient.
4. (a) Ten students obtained the following percentage of marks in the college internal test (x) and in the final university examination (y). Find the correlation coefficient between the marks of the two tests.

x	51	63	63	49	50	60	65	63	46	50
y	49	72	75	50	48	60	70	48	60	56

(OR)

- (b) A random variable X has the following probability functions

x_i	-2	-1	0	1	2	3
$p(x_i)$	0.1	k	0.2	2k	0.3	k

- Find the (i) the value of k (ii) mean (iii) variance (iv) $p(x \geq 2)$
 (vi) $p(-1 < x < 3)$.

PART –C (1 X 8=8 marks)

III. Answer the following.

5. (a) The two variables x and y have the regression lines
 $3x + 2y - 26 = 0$ and $6x + y - 31 = 0$. Find
 (i) the mean values of x and y.
 (ii) the correlation coefficient between x and y
 (iii) the variance of y if the variance of x is 25
- (OR)
- (b) A continuous random variable has the distribution function

$$F(x) = \begin{cases} 0 & \text{if } x \leq 1 \\ k(x-1)^4 & \text{if } 1 < x \leq 3 \\ 1 & \text{if } x > 3 \end{cases}$$

- Find (i) k (ii) the probability function of f(x)

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 QPS 23/8/23

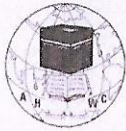
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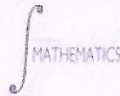
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Questions	Course Outcome	Level (Revised Bloom's Taxonomy)
1	CO2	U
2	CO4	U
3(a)	CO2	Ap
3(b)	CO2	Ap
4(a)	CO2	Ap
4(b)	CO4	Ap
5(a)	CO2	Ap
5(b)	CO4	Ap



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Department of Mathematics

II B.Sc., MATHEMATICS

III SEMESTER, II INTERNAL TEST – AUGUST 2023
SEQUENCES AND SERIES

Date: 30.08.2023

Time: 1Hr.

Subject code: CMMA31

Marks: 20

PART –A (2 X 1=2 marks)

I. Choose the correct answer

1. Which of the following sequence is a convergent sequence?

- a) (2^n) b) (n^2) c) $(\frac{1}{2^n})$ d) (n)

2. If $\sum_{n=1}^{\infty} a_n$ converges to s then

- a) $\lim_{n \rightarrow \infty} a_n = s$ b) $\lim_{n \rightarrow \infty} a_n = 0$
c) $\lim_{n \rightarrow \infty} a_n = a$ d) $\lim_{n \rightarrow \infty} a_n = 1$

PART –B (2 X 5=10 marks)

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

3. a) Prove that a sequence cannot converge to two different limits.

(OR)

b) Prove that if $(a_n) \rightarrow a$ and $(b_n) \rightarrow b$, then $(a_n + b_n) \rightarrow a + b$.

4. a) State and Prove Root Test.

(OR)

b) Test the convergence of the series $\sum \sqrt{\frac{n}{n+1}} x^n$, where x is any positive real number.

PART –C

(1 X 8=8 marks)

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

5. a) State and Prove Kummer's Test.

(OR)

b) State and Prove Condensation Test.

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Q.P.S. 23/08/2023

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Questions	Course Outcome	Level (Revised Bloom's Taxonomy)
1	CO2	U
2	CO4	U
3(a)	CO2	R
3(b)	CO2	R
4(a)	CO4	R
4(b)	CO4	Ap
5(a)	CO4	R
5(b)	CO4	R

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Department of Physics



Annai Hajira Women's College
Melapalayam, Tirunelveli - 05



I Semester, I Internal Test – August 2023

I B.Sc Physics

Properties of matter & Acoustics

Sub code :

Date :14.08.2023

Total: 20 marks

Time: 1 hr

Part –A

(2x1=2 marks)

I Choose the correct answer:

- The reciprocal of the bulk modulus is known as
(a) compressibility (b) elastic constant
(c) Poisson's ratio (d) rigidity modulus
- Unit of rigidity modulus
(a) Pascal (b) N/m^2
(c) both (a) & (b) (d) none of the above

Part B

(2x5=10 marks)

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

3.(a) Define elastic constant and explain Hooke's law.

(OR)

(b) Derive an expression for work done per unit volume in shearing strain.

4.(a) Explain stress-strain diagram.

(OR)

(b) Derive an expression for couple per unit twist.

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 three elastic moduli.

(OR)

(b) Deduce an expression for relation connecting Poisson's ratio and elastic constants.

Questions	Course Outcome	Level(Revised Bloom's Taxonomy)
1	CO1	Re
2	CO2	Re
3.a	CO1	Un
3.b	CO2	Un
4.a	CO1	Re
4.b	CO1	Re
5.a	CO2	Un
5.b	CO2	Re

Re-Remember, Un-Understand, Ap-Apply

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05/08/23

Mrs.A.Aysha Nilobar

QPS & HoD

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Lajana Kulkarni
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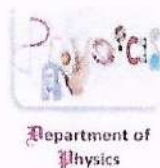
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Melapalayam, Tirumelkeli - 05

I Semester, I Internal Test - August 2023

I B.Sc. Physics

Physics for Everyday Life



Sub code:

Date: 16.08.2023

Time: 1 hr

Total: 20 marks

Part-A

(2×1=2 marks)

I Choose the correct answer:

1. ----- are circular elements in which the roller coaster goes upside down

- a) loops
- b) hills
- c) twist
- d) turns

2. Metal Halide lamps emit -----

- a) white light
- b) blue colour light
- c) red colour light
- d) all the above

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) Explain the working of hair drier.

(OR)

b) Explain the working of electric bulb?

4. a) With a neat sketch, explain the different stages of rocket.

(OR)

b) Give short notes on air conditioner.

Part C

(1×8=8 marks)

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

5. a) Describe the construction and working of roller coaster.

(OR)

b) With suitable diagram, describe the working of microwave oven.

Questions	Course Outcome	Level(Revised Bloom's Taxonomy)
1	CO1	Re
2	CO2	Re
3.a	CO1	Ap
3.b	CO2	Ap
4.a	CO1	Un
4.b	CO1	Ap
5.a	CO2	Un
5.b	CO2	Ap

Re-Remember, Un-Understand, Ap-Apply

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Ms.S. Virgin Brindha

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I Semester, I Internal Test - August 2023

I B.Sc. Physics

Introductory Physics

Sub code:

Date: 17.08.2023

Time: 1 hr

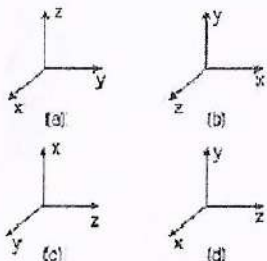
Total: 20 marks

Part A

(2x1=2 marks)

I Choose the correct answer:

1. Identify the unit vector in the following



2. The dimensional formula of Planck's constant 'h' is-----

- (a) $[ML^2T^{-1}]$
- (b) $[ML^2T^{-3}]$
- (c) $[MLT^{-1}]$
- (d) $[ML^3T^{-3}]$

Part B

(2x5=10 marks)

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

3. (a) Define vector and scalar with suitable examples for each. Write a short note on their properties.

(OR)

(b) Two vectors $\vec{A} = 5\hat{i} + 7\hat{j} - 4\hat{k}$ and $\vec{B} = 6\hat{i} + 3\hat{j} + 2\hat{k}$. Find $\vec{A} + \vec{B}$, $\vec{B} + \vec{A}$, $\vec{A} - \vec{B}$ and $\vec{B} - \vec{A}$. Comment on your answers.



4. (a) Write a note on different types of unit system. Discuss about the SI unit system and its advantages.

(OR)

(b) Check the correctness of the equation $\frac{1}{2}mv^2 = mgh$ using dimensional analysis and discuss the limitations of the analysis.

Part C

(1x8=8 marks)

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

5. (a) Explain in detail the triangle law of vector addition.

(OR)

(b) Obtain an expression for the time period 'T' of a simple pendulum. The 'T' depends on (i) mass 'm' of the bob (ii) length 'l' of the pendulum and (iii) acceleration due to gravity 'g' at the place. (Constant $k = 2\pi$)

Question	Course outcome	Level(Revised Bloom's Taxonomy)
1	CO-1	AN
2	CO-1	AP
3 (a)	CO-1	RE
3 (b)	CO-1	EV
4 (a)	CO-1	UN
4 (b)	CO-1	AP
5 (a)	CO-1	RE
5 (b)	CO-1	UN, AP

Un-Understand, Re-Remember, An-Analyze, Ev-Evaluate, AP-apply

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V Semester, II Internal Test – August 2023

III B.Sc. Physics
Basic Electronics



Sub code: CMPH51

Date: 28.08.2023

Time: 1 hr

Total: 20 marks

Part A

(2×1=2 marks)

I Choose the correct answer:

1. Zener diodes are used primarily as

- (a) amplifiers
- (b) voltage regulators
- (c) rectifiers
- (d) oscillators

2. A transistor is a _____ operated device

- (a) current
- (b) voltage
- (c) both voltage and current
- (d) none of the above

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 zener diode maintains constant voltage across the load.

(OR)

(b) Derive an expression for the efficiency of a half wave rectifier.

4. (a) Explain common emitter connection. Derive an expression For base amplification factor.

(OR)

(b) Explain class A power amplifier.

Part C

(1x8=8 marks)

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

5. (a) What is Tunnel diode? Explain the V-I characteristics of a Tunnel diode.

(OR)

(b) Explain the Push-Pull circuit with a neat diagram.

P. Malathi
23/8/2023

Mrs.P.Malathi

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A. S. Senthil
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Question	Course Outcome	Level(Revised Bloom's Taxonomy)
1	CO3	Un
2	CO5	Re
3.a	CO3	Un
3.b	CO4	Un,Ap
4.a	CO5	Un
4.b	CO5	Un
5.a	CO3	Un
5.b	CO5	Un

Re-Remember, Un-Understand, Ap-Apply

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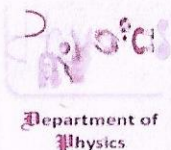
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V Semester, II Internal Test – August 2023

III B.Sc. Physics

Spectroscopy



Sub code: CEPH51

Date: 29.08.2023

Time: 1 hr

Total: 20 marks

Part-A

(2x1=2 marks)

I Choose the correct answer:

- The number of bending motions in an N-atomic nonlinear molecule is
 - 2N-4
 - 2N-5
 - 2N+1
 - Zero
- Raman shift is associated with molecular
 - vibrations only
 - rotation only
 - both vibrations and rotations
 - electronic transitions

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 an essay on infrared spectroscopy.

(OR)

(b) Write about vibrations of polyatomic molecules.

4. (a) Explain the classical theory of Raman effect.

(OR)

(b) Explain the quantum theory of Raman effect.

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 vibrational energy of diatomic molecule regarding it as (i) harmonic oscillator (ii) anharmonic oscillator.

(OR)

(b) Give theory of pure rotational Raman spectra of linear molecules.

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Dr.R.Lavanya
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Question	Course outcome	Level(Revised Bloom's Taxonomy)
1	CO-4	Re
2	CO-3	Re
3 (a)	CO-4	Re
3 (b)	CO-3	Ap
4 (a)	CO-3	Un
4 (b)	CO-4	Re
5 (a)	CO-3	Un
5 (b)	CO-2	An

Re-Remember, Un-Understand, Ap-Apply, An-Analysis

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Melapalayam, Tirumelveli - 05

V Semester, II Internal Test – August 2023

III B.Sc. Physics

Atomic and Nuclear Physics

Sub code: CMPH53

Date: 30.08.2023

Time: 1 hr

Total: 20 marks

Part-A

(2×1=2 marks)

I Choose the correct answer:

1. X-rays were discovered by

- a) Marie Curie
- c) Mosley

- b) Roentgen
- d) Bragg

2. The ratio of interplanar distances d_{100} : d_{100} : d_{100} of Bragg planes of simple cubic crystal is

- a) 1:2:3
- c) 1:1/√2:1/√3

- b) 1:1/2:1/3
- d) 1:1:1

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 any five quantum numbers associated with vector atom model.

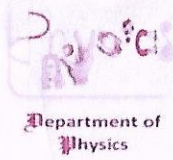
(OR)

b) Explain L-S and j-j coupling schemes with diagram.

4. a) Derive an expression for magnetic dipole moment due to orbital motion of the electron.

(OR)

b) Deduce the formula for Zeeman shift in normal Zeeman effect.



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, Debye-Scherrer method to determine the cell dimensions

(OR)

b) Discuss Bragg's law of X-ray diffraction.

Ms.S.Virgin Brindha

QPS

Head of the Department
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Melapalayam - 627 005.

Principal
PRINCIPAL

ANNAI HAJIRA WOMEN'S COLLEGE
MELAPALAYAM - 627 005.

Questions	Course Outcome	Level(Revised Bloom's Taxonomy)
1	CO3	Re
2	CO4	Re
3.a	CO4	Un
3.b	CO3	Un
4.a	CO3	Re
4.b	CO4	Un
5.a	CO4	Un
5.b	CO3	Ap

Re-Remember, Un-Understand, Ap-Apply

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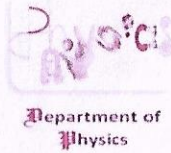
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Melapalayam, Tirunelveli - 05

V Semester, II Internal Test - August 2023

III B.Sc. Physics

Programming in C++



Sub code: CEPH51

Date: 31.08.2023

Time: 1 hr

Total: 20 marks

Part-A (2x1=2 marks)

I Choose the correct answer:

1. What are mandatory parts in the function declaration?

- (a) return type, function name
- (b) return type, function name, parameters
- (c) parameters, function name
- (d) parameters, variables

2. How many parameters does a default constructor require?

- (a) 1
- (b) 2
- (c) 0
- (d) 3

Part B (2x5=10 marks)

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

3. (a) With a C++ program, explicate inline functions.

(OR)

(b) What is function overloading? Explain with a C++ program to find the factorial of a number using function.

4. (a) With a C++ program elucidate objects as function arguments.

(OR)

(b) With an example program explain copy constructor.

Part C (1x8=8 marks)

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

5. (a) With necessary examples explain function prototyping.

(OR)

(b) What is a class in C++? How will you specify a class? Describe the working of a class using a C++ program.

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23.8.23

Dr. N. Ammakutti @ Sridevi

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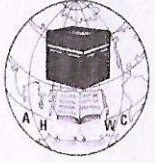
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Questions	Course Outcome	Level (Revised Bloom's Taxonomy)
1	CO5	Re
2	CO6	Re
3.a	CO5	Un
3.b	CO7	Re, Ap
4.a	CO6	Un
4.b	CO6	Un
5.a	CO5	Un
5.b	CO6	Un

Re -- Remember, Ap--Apply, Un- Understand

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V Semester, II Internal Test –August 2023

III B.Sc. Physics

Personality Development

Sub code: CCSB5A

Date:01.09.2023

Time: 1 hr

Total: 20 marks

Part-A

(2x1=2 marks)

I Choose the correct answer:

1 Role of a team may be

- (a) Team worker
- (b) Implementer
- (c) Shaper
- (d) all of the above

2 In general, Negotiation may be grouped into ----- types.

- (a) 2
- (b) 3
- (c) 4
- (d) 5

Part B

(2x5=10 marks)

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

3. (a) Discuss the principles of negotiation.

(OR)

(b) What are the factors affecting perception?

4. (a) What are the types of conflict management.

(OR)

(b) Discuss the theories of leadership.

Part C

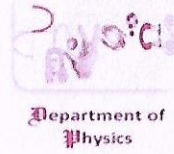
(1x8=8 marks)

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

5. (a) Discuss the process of team building.

(OR)

(b) Discuss the type and levels of conflict.



Department of
Physics

Questions	Course Outcome	Level(Revised Bloom's Taxonomy)
1	CO3	Re
2	CO4	Re
3.a	CO4	Re
3.b	CO3	Re
4.a	CO3	Re
4.b	CO4	Un
5.a	CO3	Un
5.b	CO4	Un

Re- Remember, Un-Understand

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Annai Hajira Women's College

Melapalayam, Tirumelveli -05

III Semester, II Internal Test – August 2023

II B.Sc. Physics

Maintenance of Electrical Appliances

Sub code: CSPH31

Date: 01.09.2023

Time: 1 hr

Total: 20 marks

Part A

(2×1=2 marks)

I Choose the correct answer:

1. Auto transformer works on the principle of

- (a) Joule's heating
- (b) self induction
- (c) mutual induction
- (d) none of the above

2. The heating element in an iron box is made of

- (a) copper
- (b) zinc
- (c) iron
- (d) nichrome

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) Compare core type and shell type transformers.

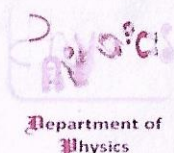
(OR)

(b) Write about the maintenance of power transformers.

4. (a) Describe LED Street lighting with neat diagram.

(OR)

(b) Explain microwave oven.



Part C

(1×8=8 marks)

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

5. (a) What is a transformer? Explain principle and working of a transformer.

(OR)

(b) Describe the various parts of washing machine. Explain the principle and working of washing machine.

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Question	Course Outcome	Level(Revised Bloom's Taxonomy)
1	CO3	Un
2	CO5	Re
3.a	CO3	Un
3.b	CO4	Un
4.a	CO5	Un
4.b	CO6	Un
5.a	CO3	Un
5.b	CO5	Un

Un- Understand, Re- Remember

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Annai Hajira Women's College

Melapalayam, Tirumelveli - 05

III Semester, II Internal Test – August 2023

II B.Sc. Physics

Electricity and Electromagnetism



Department of
Physics

Sub code: CMPH31

Time: 1 hr

Date: 30.08.2023

Total: 20 marks

Part-A (2x1=2 marks)

I Choose the correct answer:

1. The value of operator j is -----.

- (a) -1
- (b) $v-1$
- (c) $v1$
- (d) 1

2. The unit of magnetic flux is -----.

- (a) weber
- (b) coulomb
- (c) tesla
- (d) ampere

Part B (2x5=10 marks)

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

3.(a) How will you determine high resistance by leakage? With a neat circuit diagram explain the above.

(OR)

(b) Deduce an expression for power in an AC circuit. Discuss the special cases and furnish the results appropriately.

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

(OR)

(b) Draw the circuit diagram for DeSauty's bridge and obtain the balancing condition of the circuit.

Part C

(1x8=8 marks)

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

5.(a) Deduce the resonance frequency for a series resonance circuit. Analyze the graph and obtain Q-factor. Also, explain sharpness of resonance.

(OR)

(b) Describe the construction and working of moving coil ballistic galvanometer. Acquire the expression for a momentary charge through BG.

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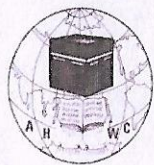
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Questions	Course Outcome	Level (Revised Bloom's Taxonomy)
1	CO3	Un
2	CO5	Un
3.a	CO3	Ap
3.b	CO3	Un
4.a	CO6	Un
4.b	CO5	Un
5.a	CO4	An
5.b	CO6	Un

Un-Understand, Ap- Apply, An - Analyze

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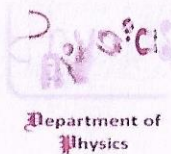
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III Semester, II Internal Test – August 2023

II B.Sc. Chemistry

Allied Physics I



Sub code: CAPH11

Date: 31.08.2023

Time: 1 hr

Total: 20 marks

Part-A

(2x1=2 marks)

I Choose the correct answer:

1. In an oscillating simple pendulum set up in laboratory, the damping of motion is due to

- (a) room temperature
- (b) density of air
- (c) viscosity of air
- (d) all the above

2. The dimension of surface tension are

- (a) MT^{-2}
- (b) MLT^{-2}
- (c) $ML^{-1}T^{-2}$
- (d) $MT^{-1}L^2$

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 free, damped and forced vibrations, giving examples.

(OR)

(b) Deduce the differential equation for damped simple harmonic motion.

4.(a) Write the analogy between liquid flow and current flow.

(OR)

(b) Derive an expression for excess of pressure inside a synclastic curved surface.

Part C

(1x8=8 marks)

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

5.(a) Derive poiseuille's formula for rate of flow of a liquid through a horizontal capillary tube.

(OR)

(b) Describe Melde's string experiment for determination of frequency of a tuning fork.

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Questions	Course Outcome	Level(Revised Bloom's Taxonomy)
1	CO1	Re
2	CO2	Re
3.a	CO1	Un
3.b	CO2	Un
4.a	CO2	Re
4.b	CO1	Un
5.a	CO1	Re
5.b	CO2	Un

Re-Remember, Un-Understand

No.of copies: 13



Annai Hajira Women's College

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Department of English



Annai Hajira Women's College
Melapalayam, Tirumelveli



I SEMESTER, I INTERNAL EXAMINATION – AUGUST 2023

I B.A / I B.Com / I B.Sc

PART II ENGLISH

Date: 19/08/2023

Subject Code:

Time: 1hr

Marks: 20

PART-A

Choose the correct answer:

2 x 1 = 2

- Where did Gandhi go to study law?
(a) London
(b) America
(c) Delhi
(d) South Africa
- What kind of poem is *Where the Mind is without Fear*?
(a) Patriotic
(b) Romantic
(c) Elegy
(d) Pastoral

PART-B

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

- (a) Describe Gandhi's childhood days.
(OR)
(b) Explain how Achebe describes nature as a happy couple.
- (a) Identify the type of nouns given in the following sentences:
1. The board is black in colour.
2. The Sun shines brightly.
3. Cow gives us milk.
4. I purchased a pair of socks.
5. Honesty is the best policy.

(OR)

(b) Fill in the blanks with the appropriate articles:

- I am going to _____ park.

- It is _____ honour to meet you.
- I went to _____ Italian restaurant for dinner.
- My Uncle is _____ MLA.
- She has _____ one-dollar note.

PART-C

Answer ALL the questions choosing either (a) or (b): **1 x 8 = 8**

- (a) Comment on the suggestions given by Tagore in his poem *Where the Mind is without Fear*.

(OR)

- (b) Malala is a free bird – Explicate.

Question Number	Course Outcome	Level (Revised Bloom's Taxonomy)
1	CO1	R
2	CO4	Ap
3	(a) CO5	U
	(b) CO1	An
4	(a) CO2	Ap
	(b) CO4	Ap
5	(a) CO2	E
	(b) CO4	An

R-Remember, C-Create, U-Understand, An-Analyze, Ap-Apply; E-Evaluate

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III SEMESTER, II INTERNAL

EXAMINATION – AUGUST 2023

II B.A / II B.Com / II B.Sc

PART II ENGLISH

Date: 29/08/2023

1hr Subject Code: C2EN31

Time:

Marks: 20

PART-A

Choose the correct answer:

2 x 1 = 2

- What did Ramani mention as the cheapest Trash in the Market?
(a) Brinjal
(b) Radish
(c) Cucumber
(d) Greens
- "The coffee smells delicious", identify the pattern of the sentence.
(a) SVC
(b) SVIDODO
(c) SVA
(d) SVO

PART-B

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

- (a) Bring out the element of satire in Leacock's *Show to become a Doctor*.

(OR)

- (b) Justify the title of the poem *Once Upon a Time*
- (a) Develop the following Hints into a meaningful Passage.
Pollution –air –water- noise-kinds- waste products- factories and industries- spoil - purity –river water – washing in river – chemicals –dangerous gases – air – noise from vehicles –smoke –inhaled by

people –many diseases –sounding horns –deafness –
deforestation – direct or direct effects – soil erosion –fields barren
– measures to check pollution.

(OR)

- (b) Write a sentence for the following pattern.
(i) SVC (ii) SVIDODO (iii) SVOC (iv) VO (v) ASVC.

PART-C

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

- (a) Explain the fantastic world raised by Savitri and the girls during Navarathri.

(OR)

- (b) List the Trait of a healthy Personality according to Shiv Kera.

Question Number	Course Outcome	Level (Revised Bloom's Taxonomy)
1	CO1	R
2	CO4	An
3	(a) CO1	U
	(b) CO4	An
4	(a) CO2	U
	(b) CO5	C
5	(a) CO2	R
	(b) CO1	U

R-Remember, C-Create, U-Understand, An-Analyze, Ap-Apply & E-Evaluate

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I SEMESTER, I INTERNAL EXAMINATION -- AUGUST 2023

I B.A English

FOUNDATION COURSE

Date: 11/08/2023

Time: 1hr

Subject Code:

Marks: 20

PART-A

I Choose the correct answer:

2 x 1 = 2

1. Give the other name of Indirect Speech.

- (a) Direct Speech (b) Quoted Speech
(c) Reported Speech (d) Both (b) & (c)

2. Which type of sentence shows a sudden or strong feeling?

- (a) Assertive Sentence (b) Interrogative Sentence
(c) Imperative Sentence (d) Exclamatory Sentence

PART-B

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

3. (a) Describe the different types of sentences with examples.

(OR)

(b) Define Noun and explain its kinds.

4. (a) Rewrite as directed

- i. I have lost my ____ of keys. (Fill in with collective noun)
ii. What a peculiar child you are! (Identify the type of sentence)
iii. Mother said, "What a wonderful place!" (Change into indirect speech)
iv. He *spoke very well*. (Name the Part of Speech of the italicized word)
v. Hurry up. (into Interrogative sentence)

(OR)

(b) Rewrite as directed

- i. She remained a ____ all her life. (Fill in with the feminine form of 'bachelor')
ii. Man *is mortal* (Name the Part of Speech of the italicized word)
iii. Please lend me some money. (Identify the type of sentence)
iv. Asoka was a great emperor. (Pick out the nouns and say what kind they are)
v. He said to her, "I like to watch this movie with you."

PART-C

III Answer ALL the questions choosing either (a) or (b): 1 x 8 = 8

5. (a) Explain 'Parts of Speech' in detail with examples.

(OR)

(b) Explain the different kinds of pronouns with examples.

Question Number	Course Outcome	Level (Revised Bloom's Taxonomy)
1	CO1	R
2	CO1	R
3	(a) CO3	An
	(b) CO1	U
4	(a) CO3	Ap
	(b) CO3	Ap
5	(a) CO1	E
	(b) CO1	An

R-Remember, C-Create, U-Understand, An-Analyze, Ap-Apply, E-Evaluate
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I SEMESTER, I INTERNAL EXAMINATION – AUGUST 2023

I B.A English

INTRODUCTION TO LITERATURE

Date: 14/08/2023

Time: 1hr Subject

Code:

Marks: 20

PART-A

2 x 1 = 2

Choose the correct answer:

1. What kind of complexion does the sun have?

- (a) Golden (b) Yellow
(c) Red (d) Blue

2. What does a 'Lyric' mean in Poetry?

- (a) Melody Poem
(b) Sad Poem
(c) Love Poem
(d) Prayer

PART-B

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

3. (a) Explain the concept of Lyrics in Poetry.

(OR)

(b) Describe the character of Vera from Saki's *The Open Window*.

4. (a) Explain the different types of Ballads with examples.

(OR)

(b) How does Shakespeare establish that his friend is more beautiful than a summer's day?

PART-C

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

5. (a) Comment on the structure of Shakespeare's poem *Shall I compare thee to a summer's day?*

(OR)

(b) Attempt an essay on Elegy and its functions.

Question Number	Course Outcome	Level (Revised Bloom's Taxonomy)
1	CO5	R
2	CO1	R
3	(a) CO2	U
	(b) CO5	An
4	(a) CO2	U
	(b) CO4	An
5	(a) CO5	E
	(b) CO1	E

R-Remember, C-Create, U-Understand, An-Analyze, Ap-Apply; E-Evaluate
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08/08/23



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Melapalayam, Tirunelveli



I SEMESTER, I INTERNAL EXAMINATION -- AUGUST 2023

I B.A English

INDIAN WRITING IN ENGLISH

Date: 16/08/2023

Time: 1hr

Subject Code:

Marks: 20

PART-A

Choose the correct answer:

2 x 1 = 2

- Which flower is referred as the "flower of God" by Toru Dutt?
(a) Rose
(b) Lily
(c) Lotus
(d) Daffodil
- Which of the following theme is alluded in the poem *The Tiger and the Deer*?
(a) Poaching of wild animals
(b) Significance of bio-diversity
(c) Identity crisis
(d) relationship between the coloniser and the colonised

PART-B

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

- (a) Discuss the plight of women portrayed in the poem *The Village Song*.
(OR)
(b) Illustrate the incidents that testify Mahatma Gandhi's commitment to truth and discipline.
- (a) Discuss the portrayal of Indian culture in *India through Traveller's Eye* by Pearl. S. Buck.
(OR)
(b) Elucidate the contradictory nature of tiger and deer as depicted in Sir Aurobindo's *The Tiger and The Deer*.

PART-C

Answer ALL the questions choosing either (a) or (b): **1 x 8 = 8**

- (a) Critically appraise Toru Dutt's *The Lotus*.

(OR)

- (b) Elaborate the significance of science, humanities and religion in the contemporary society.

Question Number	Course Outcome	Level (Revised Bloom's Taxonomy)
1	CO3	R
2	CO2	U
3	(a) CO4	U
	(b) CO4	E
4	(a) CO1	An
	(b) CO2	E
5	(a) CO3	E
	(b) CO5	An

R-Remember, C-Create, U-Understand, An-Analyze, Ap-Apply; E-Evaluate

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I SEMESTER, I INTERNAL EXAMINATION – AUGUST 2023

I B.A English

SOCIAL HISTORY OF ENGLAND

Date: 17/08/2023

Time: 1hr

Subject Code:

Marks: 20

PART-A

Choose the correct answer:

2 x 1 = 2

1. Who was the Renaissance sculptor?

- (a) Michael Angelo
- (b) Raphael
- (c) Leonardo da Vinci
- (d) Titan

2. Who was the first leader of the Reformation?

- (a) Pope Julius II
- (b) Pope Leo X
- (c) Martin Luther
- (d) Henry VIII

PART-B

Answer ALL the questions choosing either (a) or (b):

2 x 5 = 10

3. (a) Write briefly on Renaissance architecture

(OR)

(b) Write briefly on the influence of the Reformation in the production of the Bible.

4. (a) What are the causes of the Renaissance in England?

(OR)

(b) Explain the Act of Supremacy in 1534.

PART-C

Answer ALL the questions choosing either (a) or (b):

1 x 8 = 8

5. (a) How did the Renaissance movement affect the European world?

(OR)

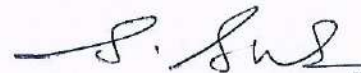
(b) Explain in detail the influence of the Reformation in English Literature.

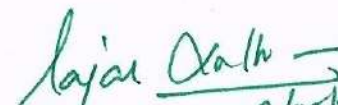
Question Number	Course Outcome	Level (Revised Bloom's Taxonomy)
1	CO1	R
2	CO2	R
3	(a) CO2	U
	(b) CO1	U
4	(a) CO1	An
	(b) CO2	U
5	(a) CO1	An
	(b) CO1	U

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I SEMESTER, I INTERNAL EXAMINATION – AUGUST 2023

I B.A English

POPULAR LITERATURE & CULTURE

Date: 18/08/2023

Time: 1hr

Subject Code:

Marks: 20

PART-A

I Choose the correct answer:

2 x 1 = 2

1. Classify the work *The Juniper Tree* published by Brothers' Grimm.

- (a) Ballad (b) Folklore
(c) Novella (d) Poem

2. Which animal is referred as "Speckled Band" by Julia Stoner?

- (e) Cheetah (b) Lizard
(c) Deer (d) Snake

PART-B

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

3. (a) Analyse the character of Willy Wonka.

(OR)

(b) Infer the significance of Children's Literature as a distinct genre.

4. (a) Analyse the themes of the short story *The Adventures of Speckled Band*.

(OR)

(b) Explain the role of Victorian Writers in the evolution of Children's Literature.

PART-C

III Answer ALL the questions choosing either (a) or (b): 1 x 8 = 8

5. (a) Elaborate the mythical elements invoked in *The Juniper Tree*

(OR)

(b) Discuss in detail the challenges in outlining popular fiction as inferred by David Glover and Scott McCracken.

Question Number	Course Outcome	Level (Revised Bloom's Taxonomy)
1	CO1	R
2	CO3	R
3	(a) CO2	An
	(b) CO4	An
4	(a) CO2	An
	(b) CO4	E
5	(a) CO1	An
	(b) CO4	E

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V SEMESTER, II INTERNAL EXAMINATION – AUGUST 2023

III B.A English

PERSONALITY DEVELOPMENT

Date: 25/08/2023

Time: 1 hr

Subject Code: CCSB51

Marks: 20

PART-A

Choose the correct answer:

2 x 1 = 2

1. Which are the things form bases for perceptions?

- (a) Figure & Ground
- (b) Perception & Illusion
- (c) Human Attitudes
- (d) Time management & Space

2. Which is associated with "Believe in Ripple effect"?

- (a) Power
- (b) Group Work
- (c) Leadership
- (d) Communication

PART-B

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

3. (a) Trace the determinants of attitude.

(OR)

(b) Explain the meaning and significance of negotiation skill.

4. (a) State the characteristic of leadership styles.

(OR)

(b) What is meant perception? Explain.

PART-C

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

5. (a) Write an essay on Conflict Management.

(OR)

(b) High Self- Monitors tend to be successful in their job performance. Justify the statement.

Question Number	Course Outcome	Level (Revised Bloom's Taxonomy)
1	CO1	R
2	CO1	R
3	(a) CO2	Ap
	(b) CO3	U
4	(a) CO4	An
	(b) CO3	U
5	(a) CO5	E
	(b) CO5	E

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**V SEMESTER, II INTERNAL
EXAMINATION – AUGUST 2023**

**III B.A English
GENRE STUDIES**

Date: 28/08/2023

Time: 1hr Subject

Code:

Marks: 20

PART-A

Choose the correct answer:

2 x 1 = 2

1. Who Calls Dryden "a great flawed Poet"?

- (a) T.S. Eliot
- (b) W.B. Keats
- (c) C.S. Lewis
- (d) Wordsworth

2. Who is regarded as the father of Blank Verse?

- (a) Sir Thomas Wyatt
- (b) William Shakespeare
- (c) Henry Howard
- (d) Thomas More

PART-B

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

3. (a) Write on the salient characteristics of Romanticism.

(OR)

(b) How did the English people maintain their life during the Restoration period?

4. (a) Describe Alienation and Byronic hero.

(OR)

(b) Why has Epiphany become the standard Term for the description?

PART-C

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

5. (a) Discuss the contribution made by the 'University wits' or Predecessors of Shakespeare for the development of English Drama

(OR)

(b) Explain the importance of using 'Allegory' as one of the literary devices.

Question Number	Course Outcome	Level (Revised Bloom's Taxonomy)
1	CO2	U
2	CO1	An
3	(a) CO4	C
	(b) CO3	E
4	(a) CO1	An
	(b) CO2	C
5	(a) CO1	U
	(b) CO2	E

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III B.A English
SHAKESPEARE

Date: 29/08/2023

Time: 1hr

Subject Code:

Marks: 20

PART-A

Choose the correct answer:

2 x 1

= 2

- Who woos Hero on Claudio's behalf?
(a) Leonato
(b) Benedick
(c) Don Pedro
(d) Don John
- Who is referred as Caius in the play *King Lear*?
(a) Edmund
(b) Edgar
(c) Kent
(d) Gloucester

PART-B

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

- (a) Discuss the significance of old age and death in *King Lear*.
(OR)
(b) Attempt an essay on the Supernatural Elements in Shakespearean Plays.
- (a) Sketch the character of Edmund
(OR)
(b) Compare and contrast the characters of Hero and Beatrice

PART-C

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

- (a) Discuss the relationship between Cordelia and Lear, and compare it to the relationship between Edgar and Gloucester.

(OR)

- (b) Describe the way that Benedick's character changes from the beginning to the end of the play.

Question Number	Course Outcome	Level (Revised Bloom's Taxonomy)
1	CO1	U
2	CO1	U
3	(a) CO2	E
	(b) CO2	R
4	(a) CO5	E
	(b) CO2	R
5	(a) CO3	An
	(b) CO3	Ap

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V SEMESTER, II INTERNAL EXAMINATION – AUGUST 2023

III B.A English

RESEARCH METHODOLOGY

Date: 30/08/2023

Time: 1hr

Subject Code:

Marks: 20

PART-A

Choose the correct answer:

2 x 1 = 2

- How are the titles of books, magazines, newspapers, films, and television programs written in a Works Cited?
 - In quotation marks
 - Underlined
 - Italicized
 - Bold
- What is the preferred font style and size for Works Consulted or Works Cited?
 - Calibri, 11
 - Verdana, 10
 - Times New Roman, 12
 - Ariel, 13

PART-B

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

- (a) What are the two important places where citation should appear in a research paper? Explain.

(OR)

(b) List out the commonly used abbreviations in MLA citation.

- (a) Explain the various methods of citing authors in the citation list.

(OR)

(b) Write a short note on Intext Citation.

PART-C

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

- (a) Explain in detail about the Parenthetical Citation with examples.

(OR)

(b) Differentiate primary and secondary sources in research.

Question Number	Course Outcome	Level (Revised Bloom's Taxonomy)
1	CO1	U
2	CO1	U
3	(a) CO2	E
	(b) CO1	E
4	(a) CO1	E
	(b) CO3	E
5	(a) CO4	E
	(b) CO3	E

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V SEMESTER, II INTERNAL EXAMINATION – AUGUST 2023

III B.A English

TRANSLATION THEORY & PRACTICE

Date: 31/08/2023

Time: 1hr

Subject Code:

Marks: 20

PART-A

Choose the correct answer:

2 x 1 = 2

1. Who makes a distinction between competence and performance?

- (a) Susan Bassnett (b) Eugene A. Nida
(c) Peter Newmark (d) Chomsky

2. What are the four universal semantic categories?

- (a) Object, Event, Abstract, Relation
(b) Nouns, Pronouns, Verbs, Adjectives
(c) Adverbs, Articles, Adjectives, Prepositions
(d) Nouns, Verbs, Conjunctions, Adjectives

PART-B

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

3. (a) What is Lexical Ambiguity in Translation? Explain it with examples.

(OR)

(b) Explain Syntactic Ambiguity in Translation with examples.

4. (a) Construct sentences of your own using the following words as directed

- i. Open (as a noun, a verb and an adjective)
ii. Close (as an adjective and an adverb)

(OR)

(b) Carry out OEAR analysis for the following sentences

- I. He writes excellently II. He excels in writing

PART-C

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

5. (a) Explain in detail the principles of translation.

(OR)

(b) Attempt an essay on transformational Generative Grammar and Translation

Question Number	Course Outcome	Level (Revised Bloom's Taxonomy)
1	CO1	U
2	CO1	U
3	(a) CO2	Ap
	(b) CO2	Ap
4	(a) CO4	An
	(b) CO4	An
5	(a) CO1	U
	(b) CO1	U

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V SEMESTER, II INTERNAL EXAMINATION – AUGUST 2023

III B.A English

ENVIRONMENT AND LITERATURE

Date: 01/09/2023

Time: 1 hr

Subject Code:

Marks: 20

PART-A

Choose the correct answer:

2 x 1 = 2

1. Which university started teaching Literature and the Environment as the first academic position?

- (a) Harvard
- (b) Nevada
- (c) Exeter
- (d) Alberta

2. In which decade did the Dust Bowl tragedy take place?

- (a) The 1910s
- (b) The 1920s
- (c) The 1930s
- (d) The 1940s

PART-B

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

3. (a) Explain how humanities scholars adopt interdisciplinary approaches to environmental restoration.

(OR)

(b) Describe the analogous phases in Eco-criticism.

4. (a) Comment on the voice of guardians in the poem *The Unnamed Lake*.

(OR)

(b) Explain the structure of the novel *The Grapes of Wrath*.

PART-C

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

5. (a) Discuss the features of Silence and Isolation in the poem *The Unnamed Lake*.

(OR)

(b) Describe the different symbols used in the novel *The Grapes of Wrath*.

Question Number	Course Outcome	Level (Revised Bloom's Taxonomy)
1	CO1	R
2	CO2	R
3	(a) CO3	An
	(b) CO3	U
4	(a) CO3	An
	(b) CO3	An
5	(a) CO4	E
	(b) CO5	E

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V SEMESTER, II INTERNAL EXAMINATION -- AUGUST 2023

III B.A English

INDIAN LITERATURE IN TRANSLATION

Date: 02/09/2023

Time: 1 hr

Subject Code:

Marks: 20

PART-A

Choose the correct answer:

2 x 1 = 2

1. Who sent Pawde an award of Rs.250 in *The Story of my Sanskrit*?
(a) Gokhale Guruji (b) Pandit Nehru
(c) Hatekar (d) None of the above
2. Who among the following is Jagannath's family god in *Bharathipura*?
(a) Bootharaya
(b) Lord Manjunatha
(c) Lord Narasimha
(d) None of the above

PART-B

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

3. (a) Comment on Narayana Guru's sense of personal discipline, according to Murkkoth Kumaran's *The Great Search*.
(OR)
(b) Discuss the different themes in U.R.Ananthamurthy's *Bharathipura*.
4. (a) Attempt an essay on KumudPawde's *The Story of my Sanskrit*.
(OR)
(b) Assess the features of superstition in U.R.Ananthamurthy's *Bharathipura*.

PART-C

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

5. (a) Elucidate the line "Interpretation must not make aesthetic experiences less important." from Suresh Joshi's *On Interpretation*.

(OR)

- (b) Elaborate the social concerns in *Mad Lover* by Sisir Kumar Das.

Question Number	Course Outcome	Level (Revised Bloom's Taxonomy)
1	CO1	R
2	CO2	R
3	(a) CO3	An
	(b) CO4	An
4	(a) CO2	U
	(b) CO4	An
5	(a) CO5	C
	(b) CO5	E

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III SEMESTER, II INTERNAL EXAMINATION – AUGUST 2023

II B.A English
BRITISH PROSE

Date: 30/08/2023

1hr Subject Code: CMEN31

Time:

Marks: 20

PART-A

Choose the correct answer:

2 x 1 = 2

1. What is the pen name of A. G. Gardiner?
(a) Elia
(b) Alpha of the Plough
(c) George Eliot
(d) Mark Twain
2. Who are the law-givers of E.M. Forster?
(a) Erasmus & Montaigne
(b) Moses & St. Paul
(c) Aristotle & Plato
(d) Dante & Dryden

PART-B

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

3. (a) What is Forster's view on personal relationship?
(OR)
(b) What is according to Forster found necessary for the maintenance of law and order?
4. (a) How does Gardiner describe the establishment of a habit in his life?

(OR)

- (b) How was according to Gardiner, Hissins on a miracle of order?

PART-C

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

5. (a) Attempt an essay on *Being Tidy* by A. G. Gardiner

(OR)

- (b) Discuss E. M. Forster's Philosophy of life

Question Number	Course Outcome	Level (Revised Bloom's Taxonomy)
1	CO1	R
2	CO1	R
3	(a) CO1	U
	(b) CO2	An
4	(a) CO1	U
	(b) CO2	An
5	(a) CO1	U
	(b) CO4	An

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III SEMESTER, II INTERNAL EXAMINATION – AUGUST 2023

II B.A English

INDIAN ENGLISH LITERATURE I

Date: 31/08/2023

Time:

1hr Subject Code: CMEN32

Marks: 20

PART-A

Choose the correct answer:

2 x 1 = 2

- How many systems of philosophy are there in India?
(a) three
(b) five
(c) six
(d) ten
- Which book first inspired Raman to believe in the value of human spirit?
(a) Euclid's *The Elements*
(b) Helm Holtz's *The Sensations of Tone*
(c) Arnold's *The Light of Asia*
(d) Nehru's *The Discovery of India*

PART-B

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

- (a) How does Jawaharlal Nehru explain the Indian Philosophical Approach?
(OR)
(b) Write a short note on Anglo-Indian Literature.
- (a) Discuss elaborately Raman's views on the role of books in guiding our life.

(OR)

(b) Analyze critically SrinivasaSastri's reflections on the ideal that he cherished throughout his life.

PART-C

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

5. (a) Sketch the character of Devata.

(OR)

(b) Justify the importance of the title *So Many Hungers!*

Question Number	Course Outcome	Level (Revised Bloom's Taxonomy)
1	CO1	R
2	CO1	R
3	(a) CO2	E
	(b) CO3	E
4	(a) CO4	An
	(b) CO5	An
5	(a) CO3	U
	(b) CO2	C

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III SEMESTER, II INTERNAL
EXAMINATION – AUGUST 2023
II B.A English
AMERICAN LITERATURE I

Date: 01/09/2023
1hr Subject Code: CMEN33

Time:
Marks: 20

PART-A

Choose the correct answer:

2 x 1 = 2

- Who wants to keep the trees and preserve their value?
(a) The neighbour
(b) The country man
(c) The city merchant
(d) The Highway man
- Who has Gay Gatsby been in love with from a young age?
(a) Myrtle Wilson
(b) Jordan Aaker
(c) Daisy Buchannan
(d) Leena

PART-B

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

- (a) Comment on the use of literary devices by Frost in the poem *Christmas Tree*
(OR)
(b) Explain the relationship between the father and the daughter in *Home After Three Months Away*
- (a) Write the character sketch of Nick Caraway from the novel *The Great Gatsby*
(OR)

- (b) Comment on the ideas of 'love at first sight' in the short story *The Spectacles*

PART-C

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

- (a) Narrate the story of *The Spectacles* by Edgar Allan Poe

(OR)

- (b) *Home After Three Months Away* is a confessional poem. Explain.

Question Number	Course Outcome	Level (Revised Bloom's Taxonomy)
1	CO1	R
2	CO2	R
3	(a) CO3	An
	(b) CO4	U
4	(a) CO3	An
	(b) CO5	An
5	(a) CO4	E
	(b) CO5	C

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**III SEMESTER, II INTERNAL
EXAMINATION – AUGUST 2023**

**II B.A English
AFRICAN LITERATURE**

Date: 04/09/2023

Time: 1

hrSubject Code: CAEN31

Marks: 20

PART-A

Choose the correct answer:

2 x 1 = 2

- Which among the following is the "unseen camp follower" in J.P.Clark's *The Casualties*?
(a) Insomnia
(b) Kwashiorkor
(c) Anemia
(d) None of the above
- Who among the following is the madman in Chinua Achebe's *The Madman*?
(a) Nwibe
(b) Udenkwo
(c) Mgboye
(d) None of the above

PART-B

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

- (a) Illustrate the causes and effects of war in J.P.Clark's *The Casualties*.

(OR)

- (b) Interpret the line, "We fall, all casualties of war" from J.P.Clark's *The Casualties*.

- (a) Analyze the themes in the poem *Africa* by David Diop.

(OR)

- (b) Comment on Diop's views of the colonized Africa through his poem *Africa*.

PART-C

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

- (a) *The Madman* by Chinua Achebe is an attack on the elitist mindset of the society – Elucidate.

(OR)

- (b) Construct a critical analysis of the line, "Perhaps, your dreams are not ruined after all!" from *The Gem and Your Dreams* by Gloria Kembabazi Muhatane.

Question Number	Course Outcome	Level (Revised Bloom's Taxonomy)
1	CO1	R
2	CO1	R
3	(a) CO3	U
	(b) CO2	An
4	(a) CO4	An
	(b) CO3	U
5	(a) CO5	E
	(b) CO5	C

R-Remember, C-Create, U-Understand, An-Analyze, Ap-Apply & E-Evaluate

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Prof 24/08/23

Ms. A. Raichel Annie Ramya
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Rajani Akh
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Annai Hajira Women's College

Melapalayam, Tirunelveli



III SEMESTER, II INTERNAL EXAMINATION – AUGUST 2023

II B.Com Batch II

ENGLISH FOR COMPETITIVE EXAMINATION

Date: 01/09/2023

Time:

1hr Subject Code: CNEN31

Marks: 20

PART-A

Choose the correct answer:

2 x 1 = 2

1. Choose the appropriate synonym for the word *Verdant*

- (a) stale (b) fresh
(c) important (d) prosperous

2. Choose the appropriate antonym for the word *Ardous*

- (a) strong (b) proud
(c) elegant (d) requiring effort

PART-B

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

3. (a) Choose the appropriate vocabulary for the following sentences

i) It is _____ for every tax- payer to _____ the tax returns to the Income Tax Department.

- a) Necessary, lodge (b) Binding, pay
c) Obligatory, submit (d) Possible, remit

ii) The impact of western culture on India was the impact of a _____ society, of a modern wedded to medieval habits of thought.

- a) Dynamic, static (b) Progressive, regressive
c) Active, passive (d) Major, minor

iii) Those suffering from glaucoma find that their _____ vision is _____ and that they can no longer see objects not directly in front of them.

- a) Optical, distorted (b) Peripheral, impaired
c) Rented, swam (d) Borrowed, intruded

iv) Every nation has a certain _____ of hostility that seeks a socially acceptable _____

- a) Experience, explanation (b) Concept, experience
c) Stock, display (d) Ideology, expression

v) The _____ of the air crash could have been avoided if more safety _____ had been taken

- a) Tragedy, precautions (b) Aftermath, steps
c) Disaster, sad event (d) Expected, filled

(OR)

(b) Write an Antonym for the following words

- i) Sceptical (iv) Zeal
ii) Gullible (v) Metaphysical
iii) Controversy

4. (a) Give a synonym for the following words

- i) Abhor (iv) Subvert
ii) Haze (v) Morbid
iii) Transfix

(OR)

(b) Give an antonym for the following words

- i) Prodigious (iv) Lucid
ii) Pragmatic (v) Conventional
iii) Fascinate

PART-C

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

5. (a) Choose the appropriate vocabulary for the following sentences

i) There are attempts being made to try to _____ languages through specific _____ but the result is that some tongues become conserved as if they were a museum place.

- a) Save, ways (b) Preserve, measures
c) Protect, factors (d) Protect, tricks

ii) If we do not take _____ care in our industry, we will have to _____ a grave problem.

- a) Proper, face (b) Adequate, catch
c) Basic, despite (d) Laid, punish

- iii) Since we _____ read every book, we _____ only the famous ones.
- a) Cannot, select b) Have, sold
c) Should, buy d) Can, purchase
- iv) Any system is likely to _____ for _____ of support from the public.
- a) Fail, want b) Launch, paucity
c) Finish, failure d) Survive, lack
- v) The young boy's _____ attempts to explain to his girlfriend about his failure to show up for their movie date did little to ease _____ for their movie date ~~did little to ease her~~ _____ feelings.
- a) Impassioned, disconsolate b) Veracious, vacuous
c) Turned, expiates d) Chronic, vicarious
- vi) The analysis of the coach's report was anything but _____ but those of us who have learned to discount such dismal _____ are optimistic
- a) Pleasant, prognostications b) Sarcastic, beneficial
c) Malicious, benefits d) Sugary, performances
- vii) Although publicity has been _____ the film itself is intelligent, well-acted, handsomely produced and altogether _____
- a) Perfect, spectacular b) Extensive, moderate
c) Tasteless, respectable d) Useless, perfect
- viii) Vinay is too much _____ in his writings, he writes a paragraph when a sentence should suffice
- a) Verbose b) Skilled
c) Lucid d) crafted

(OR)

(b) Give a synonym for the following words

- i) Mitigate
ii) Foster
iii) Quirk
iv) Perennial
v) Estrangement
vi) Abjure
vii) Famished
viii) Polity

Question Number	Course Outcome	Level (Revised Bloom's Taxonomy)	
1	CO3	R	
2	CO4	R	
3	(a)	CO5	U
	(b)	CO4	R
4	(a)	CO3	R
	(b)	CO4	R
5	(a)	CO5	U
	(b)	CO3	R

R-Remember, C-Create, U-Understand, An-Analyze, Ap-Apply & E-Evaluate

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Annai Hajira Women's College
Melapalayam, Tirumelkeli



III SEMESTER, II INTERNAL EXAMINATION – AUGUST 2023

II B.Sc Computer Science

ENGLISH FOR COMPETITIVE EXAMINATION

Date: 02/09/2023

Time: 1 hr

Subject Code: CNEN31

Marks: 20

PART-A

Choose the correct answer:

2 x 1 = 2

1. Choose the appropriate Synonym for the word *Sporadic*

- (a) soothing (b) infectious
(c) harmful (d) healthy

2. Choose the appropriate Antonym for the word *Sagacious*

- (a) shrewd (b) ignorant
(c) cunning (d) smart

PART-B

Answer ALL the questions choosing either (a) or (b):

2 x 5 = 10

3. (a) Choose the appropriate vocabulary for the following sentences

i. _____ the broker had warned him that the stock was a _____ investment, he insisted on buying a thousand shares.

- a) Because, prudent (b) Since, negligible
c) Because, speculative (d) Although, precarious

ii. Insurance companies are perfectly _____ of the greed some people show in _____ illnesses in order to get big settlements in the courts.

- a) Conscious, serious (b) Aware, faking
c) Informed, false (d) Known, ailing

iii. The education minister emphasized the need to discover and _____ each student's _____ talents.

- a) Develop, intrinsic (b) Enlarge, dormant
c) Suppress, potential (d) Flourish, hidden

iv. Paula was _____ as a child, accepting without a question, everything she was told.

- a) Reticent (b) Credulous
c) Impatient (d) Taciturn

v. Civilization, in the real sense of the term consists not in the _____ but in deliberate and voluntary _____ of wants.

- a) Multiplication, reduction (b) Increase, decrease
c) Overgrowth, diminishing (d) Consider, important

(OR)

(b) Write an Antonym for the following words

- i) Peerless (iv) Expedite
ii) Judgmental (v) Extinguish
iii) Cautious

4. (a) Give a synonym for the following word

- i) Alienate (iv) Euphoria
ii) Evocation (v) Antipathy
iii) Exculpate

(OR)

(b) Give an antonym for the following words

- i) Charismatic (Arduous)
ii) Nag (Naive)
iii) Auspicious

PART-C

Answer ALL the questions choosing either (a) or (b):

1 x 8 = 8

5. (a) Choose the appropriate vocabulary for the following sentences

i) Santosh looked very happy and _____ when he heard that his proposed scheme was _____ by the committee.

- a) energetic, rejected (b) elated, accepted
c) satisfied, stalled (d) disconsolate, approved

ii) I am not _____ to sell you my house unless you offer a more _____ price

- a) conform, true (b) prepare, realistic
c) ready, correct (d) having, actual



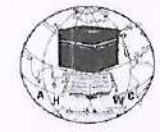
Anmai Hajira Women's College

Melapalayam, Tirunelveli-05

(A Unit of As-Sathiq Educational Society)

(Affiliated to Manonmaniam Sundaranar University)

Department of Language - Tamil



அன்னை ஹாஜிரா பெண்கள் கல்லூரி மேலப்பாளையம்
முதலாமாண்டு முதல் பருவம் - உள்மதிப்பீடு - 1
ஆகஸ்டு - 2023



அனைத்து முதலாமாண்டு மாணவியற்குரியது
(ஆங்கிலம்/வேதியியல்/இயற்பியல்/கணிணி அறிவியல் /வணிகவியல்)
பகுதி 1 - பொதுத் தமிழ்

Subject Code: -
நாள் : 21.08.2023

நேரம் : 1 மணி நேரம்
மதிப்பெண் : 20

பகுதி - அ

I சரியான விடையைத் தேர்ந்தெடுத்து எழுதுக. (2x1=2 Marks)

1. தமிழில் கிடைத்த முதல் இலக்கணநூல் எது?

- அ) நம்பியகப்பொருள்
- ஆ) தொல்காப்பியம்
- இ) நன்னூல்
- ஈ) தண்டியலங்காரம்

2. நன்னூல் ஆசிரியர் யார்?

- அ) பவணந்தி முனிவர்
- ஆ) இளங்கோவடிகள்
- இ) திருத்தக்கத்தேவர்
- ஈ) திருவள்ளுவர்

பகுதி - ஆ (2x5=10 Marks)

II அனைத்து வினாக்களுக்கும் 250 சொற்களுக்கு மிகாமல் எழுதுக.

3. அ. தண்டியலங்காரம் நூல் பற்றி எழுதுக.

(அல்லது)

ஆ. புறப்பொருள் வெண்பாமாலையில் இடம் பெறும் புறப்பொருள்களைப் பற்றி எழுதுக.

4. அ. நம்பகப் பொருளில் இடம்பெறும் அகப்பொருள்களை எழுதுக.

(அல்லது)

ஆ. நன்னூல் நூலமைப்பினை எழுதுக.

பகுதி - இ (1x8=8 Marks)


III அனைத்து வினாக்களுக்கும் 600 சொற்களுக்கு மிகாமல் எழுதுக.

5. அ. தொல்காப்பிய நூலமைப்பினை விளக்கி எழுதுக.

(அல்லது)

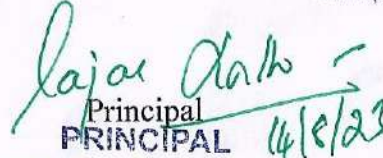
ஆ. வல்லினம் மிகும் இடங்கள், மிகா இடங்களைப் பற்றி விளக்கி எழுதுக.

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(Dr. T. Ramalakshmi)
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MELAPALAYAM - 627 005.

Question no.	Course objective	Level (Revised Bloom's Taxonomy)
1.	CO1	An
2.	CO1	An
3. அ.	CO1	An
ஆ.	CO1	An
4. அ.	CO1	An
ஆ.	CO1	An
5. அ.	CO1	An
ஆ.	CO1	An



அன்னை ஹாஜிரா பெண்கள் கல்லூரி மேல்பாளையம்
இரண்டாமாண்டு மூன்றாம் பருவம் - உள்மதிப்பீடு-2
ஆகஸ்டு - 2023
அனைத்து இரண்டாமாண்டு மாணவியற்குரியது
(ஆங்கிலம்/ கணிதம்/ வேதியியல்/இயற்பியல்/
கணினி அறிவியல் /வணிகவியல்)



பகுதி 1 - பொதுத் தமிழ்

Subject Code: C1TL31

நாள் : 28.08.2023

நேரம் : 1 மணி நேரம்

மதிப்பெண் : 20

பகுதி - அ (2x1=2 Marks)

I சரியான விடையைத் தேர்ந்தெடுத்து எழுதுக.

1. இந்திரனின் சினத்திற்குக் காரணமானவர் யார்?
அ) இந்திராணி ஆ) கோவலன்
இ) ஆபுத்திரன் ஈ) வருணன்

2. அசை எத்தனை வகைப்படும்?

- அ) 2 ஆ) 3
இ) 4 ஈ) 5

பகுதி - ஆ (2x5=10 Marks)

II அனைத்து வினாக்களுக்கும் 250 சொற்களுக்கு மிகாமல் எழுதுக.

3. அ. நபுக்கனின் நலிவிற்குரிய காரணத்தை விளக்குக.
(அல்லது)
ஆ. அடி என்றால் என்ன விளக்குக.

4. அ. தற்குறிப்பேற்ற அணியினை விளக்குக.
(அல்லது)

ஆ. உவமை அணியினை விளக்குக.


பகுதி - இ (1x8=8 Marks)

III அனைத்து வினாக்களுக்கும் 600 சொற்களுக்கு மிகாமல் எழுதுக.

5. அ. புத்து பேசிய படலம் உணர்த்தும் செய்திகளை விளக்குக
(அல்லது)
ஆ. பா வகைகள் பற்றி விளக்குக.

Question no.	Course objective	Level (Revised Bloom's Taxonomy)
1.	CO1	R
2.	CO2	U
3. அ.	CO1	U
ஆ.	CO2	E
4. அ.	CO2	E
ஆ.	CO2	An
5. அ.	CO2	E
ஆ.	CO2	An

No. of copies: 196


26/8/23
(Dr.S.Uma)
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