



Annai Hajira Women's College

Melapalayam, Tirunelveli - 05

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STAFF PUBLICATIONS UNDER UGC CARE LISTED JOURNALS 2022-2023

**Number of research papers in the Journals notified on UGC
CARE list in the year 2022-2023**

Sl.No	Title of paper	Name of the author/s	Department of the teacher	Name of journal	Is it listed in UGC Care list
1	A study on problems faced by the customers while using E-banking services with reference to Axis bank in Tirunelveli District	Dr.K.Rajab Fathima	Commerce	KUTAP, An ensemble of Musicians	UGC Care Listed
2	ZnO/BaO nanocomposites: a promising photocatalyst in degrading anionic and cationic dyes under UV and visible light and an efficient antibacterial agent	Dr.M.Anuratha	Chemistry	Journal of Sol-Gel Science and Technology	Web of Science
3	Sanga Purapaadaigalii pulavargalin vaazhthiyal thiram	Dr.T.Ramalakshmi	Tamil	Puthiya Avaiyam	UGC Care Listed
4	Keelavenmani Padukolaigal kuritha kavithaigalii aathikka vanmuraigal	Dr.S.Sabreen Muneer	Tamil	Puthiya Avaiyam	UGC Care Listed
5	Natrinaiyil vilangiyalaar matrum tholkaapiyarin vilangiyai	Dr.S.Uma	Tamil	Puthiya Avaiyam	UGC Care Listed
6	A survey on vision-conventional vehicle re-identification methods	K.M.N Syed Ali Fathima	Commerce	Sarah Research Journal	UGC Care Listed
7	The Rhetoric of the Frontier: The postmodernist ventures in Larry mcmurtry's fiction	Mrs.D.Jones Sudha Vijai & Mrs.M.TajBeevi Thangamma	English	Dogo Rangsang Research Journal-UGC CARE Group I Journal	UGC Care Listed

Sl.No	Title of paper	Name of the author/s	Department of the teacher	Name of journal	Is it listed in UGC Care list
8	Operation Order Divisor Graph of a group	R. M. Muthulakshmi	Mathematics	Research and Reflections on Education	UGC Care Listed
9	Deep Neural Network Approach for vehicle Identification in Intelligent Transportation Systems	K.M.N.Syed Ali Fathima	Computer Science	Neuro Quantology	UGC Care Listed
10	Social Discrimination on Richard wrights' Native Son	Ms.A.Raichel Annie Ramya	English	Dogo Rangsang Research Journal- UGC CARE Group I Journal	UGC Care Listed
11	Liminality in Children Literature: A study on Enid Blyton's The Enchanted Wood	Dr.D.Jones Sudha	English	Journal of Emerging Technologies and innovative research (JETIR)	UGC Care Listed
12	Margaret Drabble's The Red queen: The Phases of Life	Dr.K.Shunmuga Jothi	English	Shodhak : A Journal of Historical Research	UGC Care Listed
13	Environmental Remediation of real textile dyeing waste water under visible light and inactivation of pathogenic bacteria using . ZnO-CuO Nano-needles	Dr.M.Anuratha	Chemistry	Physica status solidi A	UGC Care Listed

Sl.No	Title of paper	Name of the author/s	Department of the teacher	Name of journal	Is it listed in UGC Care list
14	Culture Specific Conflict in Align Land portayed in Chithra Banerjee DivaKaruni's the unknown errors of our lives	Dr.S.Subbammal @ Kala and Mrs. Shanthi Kumari Pushpa	English	The Board of Journal of emerging Technologies and innovative research	PEER REVIEWED
15	Vilangiyal Nokkil Natrinai Kuranginam	Dr.S.Uma	Tamil	Puthiya Avaiyam	UGC Care Listed
16	Tharkaala Pen Kavinjargalil Pengalukaana Thonma Payanbaadugal	Dr.S.Uma	Tamil	Kavimugi International Journal of Tamii Research	UGC Care Listed

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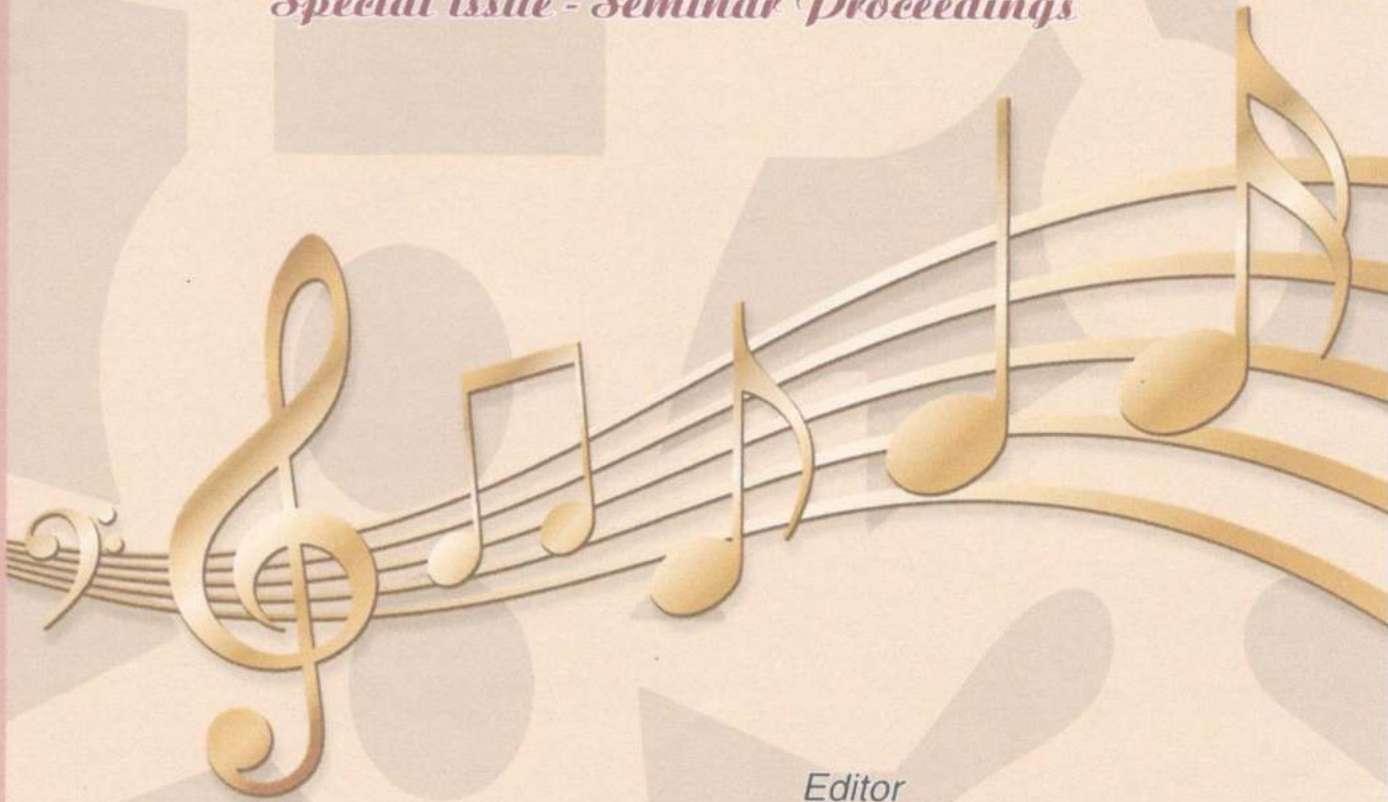
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A Study on Problems Faced by the Customers While using e-Banking Services with Reference to Axis Bank in Tirunelveli District

Caroline Mano Gracia*, K. Rajab Fathima† & F. X. Robert Bellarmine‡

ABSTRACT—E-Banking has become an opportunity for the banks to manage their banking business in a better way. Any transaction, whether it is financial or non-financial that make over through a web page or a web application constitutes E-banking or internet banking. It enables digital payments which are secure, transparent and quick, allows the customer to access bank account whenever and wherever they want to. In addition to this, the benefit of lower transaction costs on transactions made through E-banking. The instant notifications are also an added benefit, as they help to know everything about bank account in real-time. However, trust is the biggest hurdle to online banking for most of the customers. Conventional banking is preferred by the customers because of lack of trust on the online security. The present study focused on the problems faced by the customers while using various E-banking services and the responses to the study have been solicited only from Tirunelveli district. The researcher has used descriptive statistics and simple percentage method for the present study. The result highlighted that the implementation of E-banking is beneficial for bank in many ways as it reduces cost to banks, improves customer relation, increases the geographical reach of the bank, etc. still there is a need to have more innovative solutions like software applications to be user friendly as well as fool-proof so that the challenges can be solved and opportunities can be availed efficiently by the banks.

Key Words: E-banking, digital payments, descriptive statistics, innovative solutions.

INTRODUCTION

E-banking refers to performing basic banking transactions by the customers through electronic media using PC or LAPTOP. The customers can access their bank account by logging into the bank's website and can get all the banking services as per their requirement.

E-banking is more information based, quick and margin less due to the boom of Electronic Revolution. Banking today is re-defined and re-engineered with the growth of information technology and it is sure that the future banking will offer more sophisticated services to the customers with continuous product and process innovations. In India, the E-banking service is carried out in an effective way to satisfy the customers of the respective banks. As time factor, is highly important for all the customers in this fast world, waiting in a queue and spending precious time are not appreciated and hence e-banking is handy and comfortable.

In banking industry, E-services are at a revolutionary stage. The electronic banking services include functions like transferring money and checking accounts and also ensure paperless transactions. Electronic fund transfer is done through the cards that will access individual bank account with specific codes.

E-banking provides enormous benefits to consumers in terms of quick and easy procedure at a nominal cost for transactions. Online banking helps banks to retain their existing customers, improve customer satisfaction, increase banks' market share, reduce administrative as well as operational cost and more importantly improve banks' competitive position.

In E-banking system, banks are increasing their customer base with the help of multiple e-delivery channels like ATMs, Credit/Debit/Smart Cards, Internet banking, Mobile banking, Tele banking, EFTs etc.

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ZnO/BaO nanocomposites: a promising photocatalyst in degrading anionic and cationic dyes under UV and visible light and an efficient antibacterial agent

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Abstract

Photocatalysis is a photochemical advanced oxidation process (AOP) that depends on the crystalline quality and specific surface area of the nanoparticles. Heterogeneous photocatalysts zinc oxide/barium oxide nanocomposites (ZnO/BaO NCs) were synthesized by a simple and low-cost hydrothermal method for the degradation of organic pollutants in wastewater. X-ray diffraction analysis (XRD) revealed the formation of hexagonal and cubic crystalline-structure phases for ZnO and BaO nanoneedles, with an average crystallite size ranging from 28–31 nm. Sphere-like morphology for the synthesized NCs was evident from the SEM analysis. BaO in ZnO significantly enhances the photocatalytic performance of ZnO with high degradation efficiency of 97% in 40 min, 96% and 93% in 90 min under UV light irradiation; and 97% in 60 min, 95% in 90 min, and 50% in 120 min under visible light irradiation for the decolorization of methylene blue (MB), malachite green (MG) and methyl orange (MO), respectively. Moreover, they showed efficient rate constants of about $25 \times 10^{-3} \text{ min}^{-1}$, $23 \times 10^{-3} \text{ min}^{-1}$, and $5 \times 10^{-3} \text{ min}^{-1}$ for MB, MG, and MO, respectively. These NCs effectively inactivated pathogenic bacteria, namely *S. aureus* and *E. coli*, by cell wall destruction with a zone of inhibition of about 6 mm and 7 mm, respectively even with small volumes of NC solutions (75 μl). Hence this study suggests that ZnO/BaO NCs can provide an efficient way toward the best pollutant degradation system commercially.

Graphical Abstract

**Keywords** ZnO/BaO nanocomposites · Hydrothermal synthesis · Photocatalysis · Stability · Antibacterial activity

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X-ray diffraction (XRD) patterns for the prepared nanoparticles were recorded using a Bruker D8 ADVANCE X-ray diffractometer with Cu-K α radiation ($\lambda = 1.5406 \text{ \AA}$) in the scan range $2\theta = 30\text{--}80^\circ$. UV-visible spectroscopy was carried out using a Shimadzu UV 1700. Scanning electron microscopy and energy dispersive X-ray (SEM with EDAX, Model: FEI Quanta 200) were used to study the morphology of the samples and analyze the composition of the nanoparticles. Fourier transform infrared (FTIR) measurements were recorded between 4000 and 400 cm^{-1} wavenumbers with a Perkin Elmer Spectrum 100 series spectroscopy instrument, using the KBr disk technique to record the spectra.

2.2 Synthesis of ZnO, BaO, and ZnO/BaO

In a typical procedure for the synthesis of ZnO NPs, 25 ml of a 1 M solution of $\text{Zn}(\text{NO}_3)_2 \cdot 6\text{H}_2\text{O}$ in 1 M NaOH was dissolved in 35 ml of distilled water. The resultant solution appeared to be turbid milky. Then the resulting solution was transferred to a 50 ml Teflon-lined autoclave and maintained at 100°C for 5 h. After cooling down to room temperature, the prepared precipitates were collected by centrifugation, washed with ethanol and distilled water thrice, respectively, and then dried at 80°C on a hotplate. For the synthesis of BaO NPs and ZnO/BaO NCs, 25 ml of a 1 M solution of $\text{BaCl}_2 \cdot 2\text{H}_2\text{O}$ in 1 M NaOH were dissolved in 35 ml of distilled water and appropriate amounts of $\text{BaCl}_2 \cdot 2\text{H}_2\text{O}$ (0.1 M, 0.3 M, and 0.5 M) were added into the aqueous solutions containing $\text{Zn}(\text{NO}_3)_2 \cdot 6\text{H}_2\text{O}$ (0.9 M, 0.7 M, and 0.5 M) and the above-mentioned procedure was repeated.

2.3 The photocatalytic degradation process

The photocatalytic degradation of MB, MG, and MO dye was evaluated for the ZnO NPs, BaO NPs, and ZnO/BaO NCs. About 0.01 g of ZnO, BaO, and ZnO/BaO were dispersed in 50 ml solutions of each dye (0.005 M) with stirring and then transferred to petri dishes. These suspensions were irradiated under UV light and visible light at room temperature over different time periods and the absorbance changes were studied at 10 min interval along with the degradation. The light sources used for irradiation (UV: 8 W ($\lambda = 254 \text{ nm}$); and visible light: 8 W; (350 LM)) were mounted 10 cm from the reaction solution.

2.4 The antibacterial assay

The antimicrobial activities of ZnO NPs, BaO NPs, and ZnO/BaO NCs were assessed against the Gram-positive pathogen *Staphylococcus aureus* and Gram-negative *E. coli*, by the disc diffusion method. Different concentrations of extracts (100 $\mu\text{g/ml}$) were prepared by reconstituting with

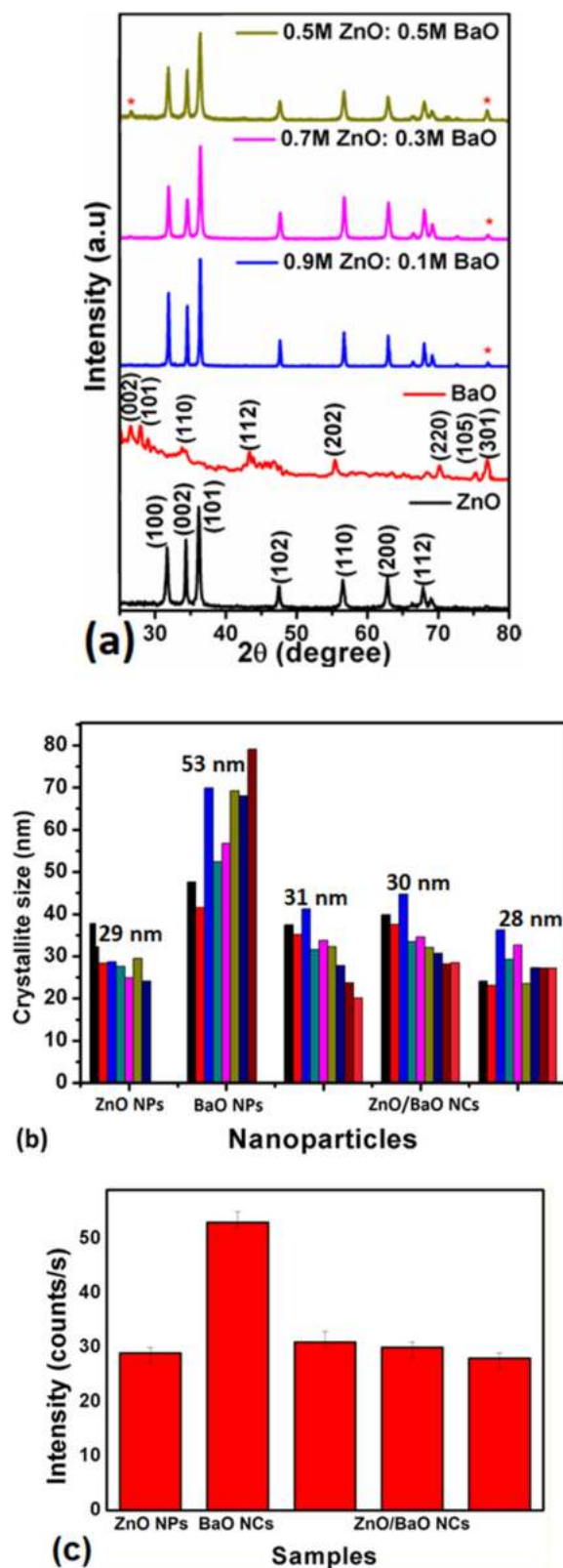


Fig. 1 (a) XRD patterns; (b) distribution of crystallite sizes; and (c) average crystallite sizes (with error bars) of ZnO NPs, BaO NPs and ZnO/BaO NCs

bacteria as compared to the Gram-positive pathogen was reported earlier [39, 40]. Thus, the results obtained in this study illustrate the possibilities of using the ZnO/BaO NCs as efficacious photocatalysts and antibacterial agents.

4 Conclusion

The present study has explored the structural, optical, morphological and vibrational properties of ZnO/BaO NCs prepared by a hydrothermal method. XRD demonstrated that all samples exhibited the wurtzite structure of ZnO along with the incorporation of Ba ions into the ZnO matrix. A sphere-like morphology for the NCs was evident via SEM. The red shift in the band gap upon doping enhanced the NCs' photocatalytic activity for degradation and decolorizing of dye solutions under UV and visible light effectively. In addition, doping led to higher antibacterial efficacy against Gram-positive and Gram-negative bacteria, enhancing the water decontamination process. From these results, the ZnO/BaO NCs were shown to be effective photocatalysts for the degradation of anionic and cationic organic dyes and as an efficient antibacterial agent.

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Compliance with ethical standards

Conflict of interest The authors declare no competing interests.

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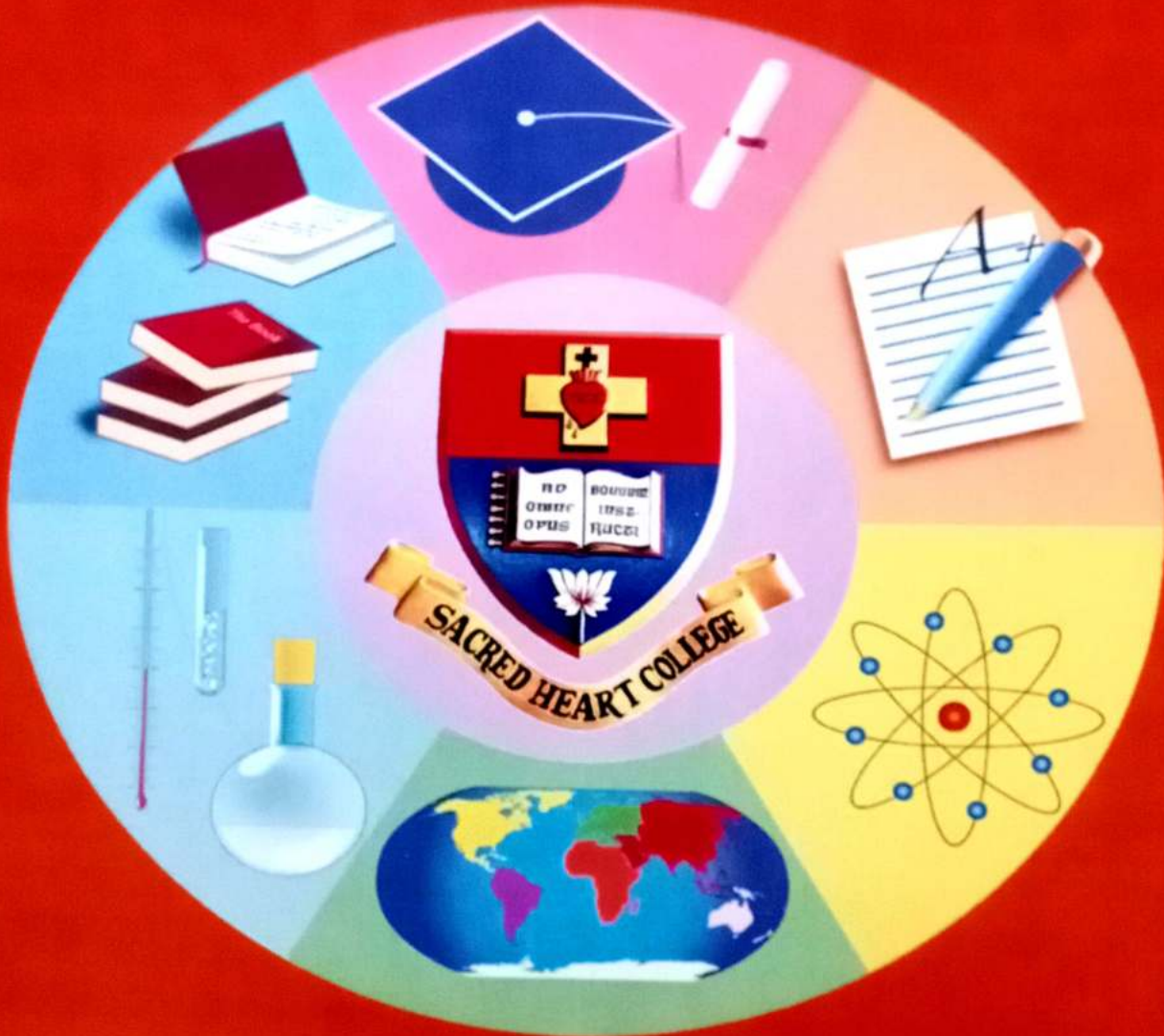
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சங்கப் புறப் பாடல்களில் புலவர்களின் வாழ்த்தியல் திறம்

முனைவர் த. ராமலெட்சுமி

உதவிப்பேராசிரியர், தமிழ்த்துறை

அன்னை ஹாஜிரா பெண்கள் கல்லூரி, மேலப்பாளையம்

ஆய்வுச் சுருக்கம்

சங்க இலக்கியங்களான எட்டுத்தொகையும், பத்துப்பாட்டும் அகம், புறம் என்னும் இரு பிரிவுகளின் கீழ் அமைந்தவை. சங்கப் பாடலாசிரியர்கள் தம் செய்யுளுக்குப் பாடு பொருளாக அக்கால மக்களின் வாழ்வியலை அடிப்படையாகக் கொண்டு பாடலமைத்தனர். அதனை அகத்திணை, புறத்திணை என வகுத்தனர். அகம் என்பது காதல் ஒழுக்கத்தையும், புறம் என்பது போர் முதலான பிற ஒழுக்கங்களையும் குறித்து அமைந்தவை. இவற்றுள் புற இலக்கியங்களில் புலவர்கள் அரசரை வாழ்த்தியும், புகழ்ந்தும் பாடல்கள் பாடியுள்ளனர். அவ்வாறு வாழ்த்திப் பாடப்பட்ட பாடல்களில் அமைந்துள்ள புலவர்களின் வாழ்த்தியல் திறனைக் காண்பது இவ்வாய்வாகும். முன்னுரை, புலவர்கள், புலவர் - விளக்கம், புலவர் வாழ்வாதாரம், வாழ்த்து, குடும்பம், நீண்ட ஆயுள், ஈகையாளனாக வாழ்த்துதல், இறப்பும் நோயும் நீங்கிட வாழ்த்துதல், முடிவுரை போன்ற தலைப்புகளில் இவ்வாய்வு அமைகின்றது. திறவுச் சொற்கள் : சங்கம், இலக்கியங்கள், வாழ்த்து, புறம், புலவர்கள்

முன்னுரை

நிகழ்காலத்தை எதிர்காலத்திற்கு அடையாளம் காட்டுவதிலும் படம் பிடித்து காட்டுவதிலும் பெரும் பங்கு வகிப்பவை ஊடகங்களே ஆகும். அவற்றோடு முக்கிய பங்கு வகிப்பவை இலக்கியங்கள் ஆகும். அவை சமுதாய நிகழ்வுகளைத் தங்கள் எழுத்துகள் வழி இயல்பாகவே மக்களுக்கு உணர்த்தி விடுகின்றன. எனவே இலக்கியவாதிகள் சமுதாய நிகழ்வுகளைப் படம் பிடித்துக் காட்டும் உன்னதப் படைப்பாளிகளாக வலம் வருகின்றனர். அத்தகைய வரிசையில் சங்க காலத்தை நம் கண் முன் கொண்டு வருபவர்கள் சங்கச் சான்றோர்களான புலவர்களே ஆவர். அத்தகைய புலவர்கள் அரசரை வாழ்த்திப் பாடுவதில் வல்லவர்களாகவே விளங்கினர். அவர்களின் வாழ்த்துப் பாடல்களில் இடம்பெறும் செய்திகள் தெரிவிக்கும் உண்மைகளை விளக்கும் பொருட்டாக இக்கட்டுரை இடம்பெறுகிறது.

புலவர்கள்

சங்க இலக்கியங்களைத் தொகை நூல்கள் என்று கூறுவர். அதற்குக் காரணம் அவற்றில் அமைந்த பாடல்கள் அனைத்தும் பல்வேறு காலங்களில், பல்வேறு இடங்களில், பல்வேறு இனத்தையும், தொழிலினையும் சார்ந்த புலவர் பெருமக்களால் படைக்கப்பட்டதே ஆகும். அவர்களில் சாதாரண குடிமக்கள் முதல் அரசர் குடியைச் சார்ந்தோர் வரை இருந்தனர். இவர்களில் ஆண்பாற் புலவர்களும் இருந்தனர். பெண்பாற் புலவர்களும் இருந்தனர். இவர்கள் தங்கள் படைப்புகளைப் பதிவுகளாக்க வேண்டும் என்ற எண்ணத்தில் பாடல்களைப் படைக்கவில்லை. மாறாக தங்கள் கண் முன் தெரிந்த உண்மைகளைத் தாங்கள் அறிந்ததை அறிந்த வண்ணமே அறிவின் வழிநின்று பாடல்களாக படைத்தனர்.



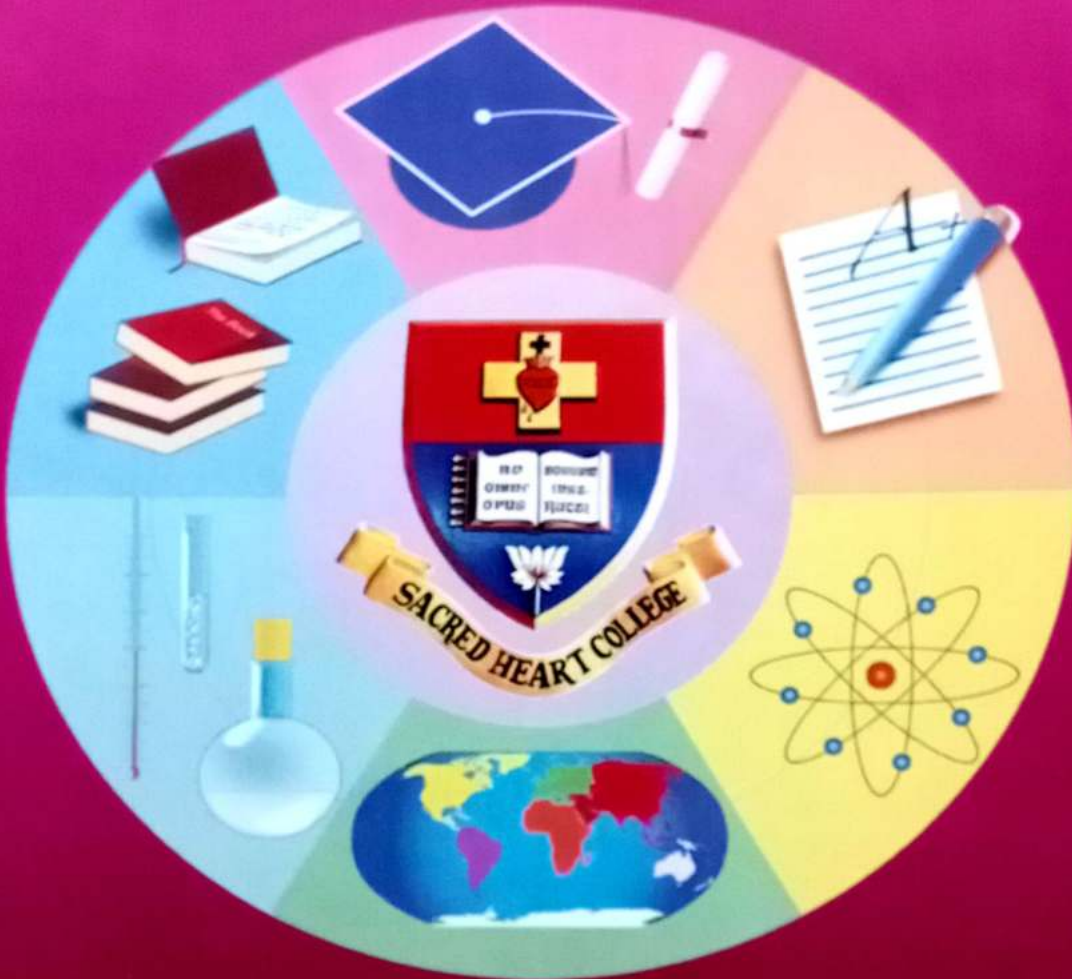
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June-2023

கீழ்வெண்மணி படுகொலைகள் குறித்த கவிதைகளில் ஆதிக்க வன்முறைகள்

முனைவர் செ. ஷப்ரீன் முனீர்

இணைப்பேராசிரியர் மற்றும் தமிழ்த்துறைத் தலைவர்

அன்னை ஹாஜிரா பெண்கள் கல்லூரி, மேலப்பாளையம், திருநெல்வேலி.

ஆய்வுக்கருக்கம்

ஒடுக்கப்பட்ட ஒன்று தான் வீரியத்தடன் வெளிக்கிளம்பும். பன்னெடுங்காலமாக அடக்கப்பட்டுக் கிடந்த உணர்வுகளும், ஒடுக்கப்பட்டுக் கிடந்த வலிகளும் இலக்கியங்களாக ஆக்கம் பெறுகின்றன. தலித்தியக் கவிதைகளில் ஆசிரியரின் குரல் ஒரு தனிமனிதக் குரலாக இல்லாமல் ஒரு இனக்குழுவின் கூட்டுக் குரலாகவே ஒலிக்கிறது என்ற உண்மை விளங்குகிறது. தொன்மங்களும், இனக்குழு வழக்காறுகளும், அமங்கல இடக்கரடக்கல்களும் இணைந்த மையப்படுத்தப்பட்ட செவ்வியல் மொழிக்கு எதிரான, அமானுட மொழி அமைப்பொன்றை தலித்தியக் கவிஞர்கள், கவிதைகள் மூலம் வெளிப்படுத்துகின்றனர். தலித் படைப்பு மொழி இன்று கவனிப்புக்கும், மீளாய்வுக்கும் உள்ளாக்கப்பட வேண்டும். தலித்திய மொழி உணர்வும், உயிர்த் தன்மையும் கொண்ட மொழியாக மாற வேண்டும் என்ற கருத்துக்கள் கவிஞர்கள் மூலம் எடுத்துரைக்கப்படுகின்றன. இவ்வாய்வு தலித் சொல்லாடல், தலித்தியக் கவிதைகள், கீழ்வெண்மணி படுகொலைகள், சாதீ, வெண்மணியும் நெல்மணியும், இதுவரை அம்முறை இனிமேல் நம்முறை, முடிவுரை போன்ற தலைப்புகளின் கீழ் விளக்கப்பட்டுள்ளது.

திறவுச்சொற்கள்

கீழ்வெண்மணி, தலித்தியம், கவிதைகள், ஆதிக்கம், வன்முறைகள்

முன்னுரை

தமிழகத்தில் தலித் மக்களின் மீது ஆதிக்க சாதியினர் நிகழ்த்திய வன்முறை தாக்குதலான கீழ்வெண்மணி படுகொலைகள் குறித்த கவிதைகளை ஆய்வதாக இந்த ஆய்வு அமைந்துள்ளது. இந்த நிகழ்வின் தாக்கம் கவிஞர்களின் கவிதைகளில் வெளிப்படும் பாங்கினை புலப்படுத்தும் நோக்கில் இக்கட்டுரை அமைந்துள்ளது.

தலித் சொல்லாடல்

தலித் என்ற சொல்லுக்கு பல்வேறு கருத்துகளை அறிஞர்கள் கூறுகின்றனர்.

“தலித் என்ற சொல்லை முதன் முதலில் கையாண்ட ஜோதிபால் பூலே, அதற்குப் ‘புறச் சாதியினர்’ என பொருள் தந்தார். 1950இல் தலித் என்ற சொல் புத்த மதத்திற்கு மாறிய தாழ்த்தப்பட்டோரை குறித்தது. 1970இல் இருந்துதான் தலித் என்ற சொல் மராட்டியத்திலும் 1990க்கு பிறகு இந்தியாவின் பிற பகுதிகளிலும் பயன்படுத்தப்பட்டது”¹ தலித் என்ற சொல் பற்றி கெய்ல் ஓம் வெல்த் அவர்கள் “தாழ்த்தப்பட்டவர்கள், உழைக்கும் மக்கள், நிலமற்றவர்கள், ஏழை விவசாயிகள், பெண்கள், அரசியல் ரீதியாகவும், பொருளாதார ரீதியாகவும், மதத்தின் பெயரால் சுரண்டப்படும் அனைவருமே தலித்துகள் தான்”² என்கிறார். “தலித் என்ற சொல் ஒரு சாதியை குறிக்கின்ற ஒன்றாக சுருங்கி விடக்கூடாது. அது வேதனையின் குறியீடாக இருக்க வேண்டுமே தவிர சுரண்டலின் குறியீடாக ஆகிவிடக்கூடாது. சுரண்டல், கொடுமை, அக்கிரமங்களை எதிர்க்கின்ற குறியீடாக மலர வேண்டுமே தவிர, சுரண்டலின் குறியீடாக ஆகிவிடக்கூடாது. அவமானம், பாதுகாப்பின்மை, எதிர்ப்பு ஆகிய பொருள்களை



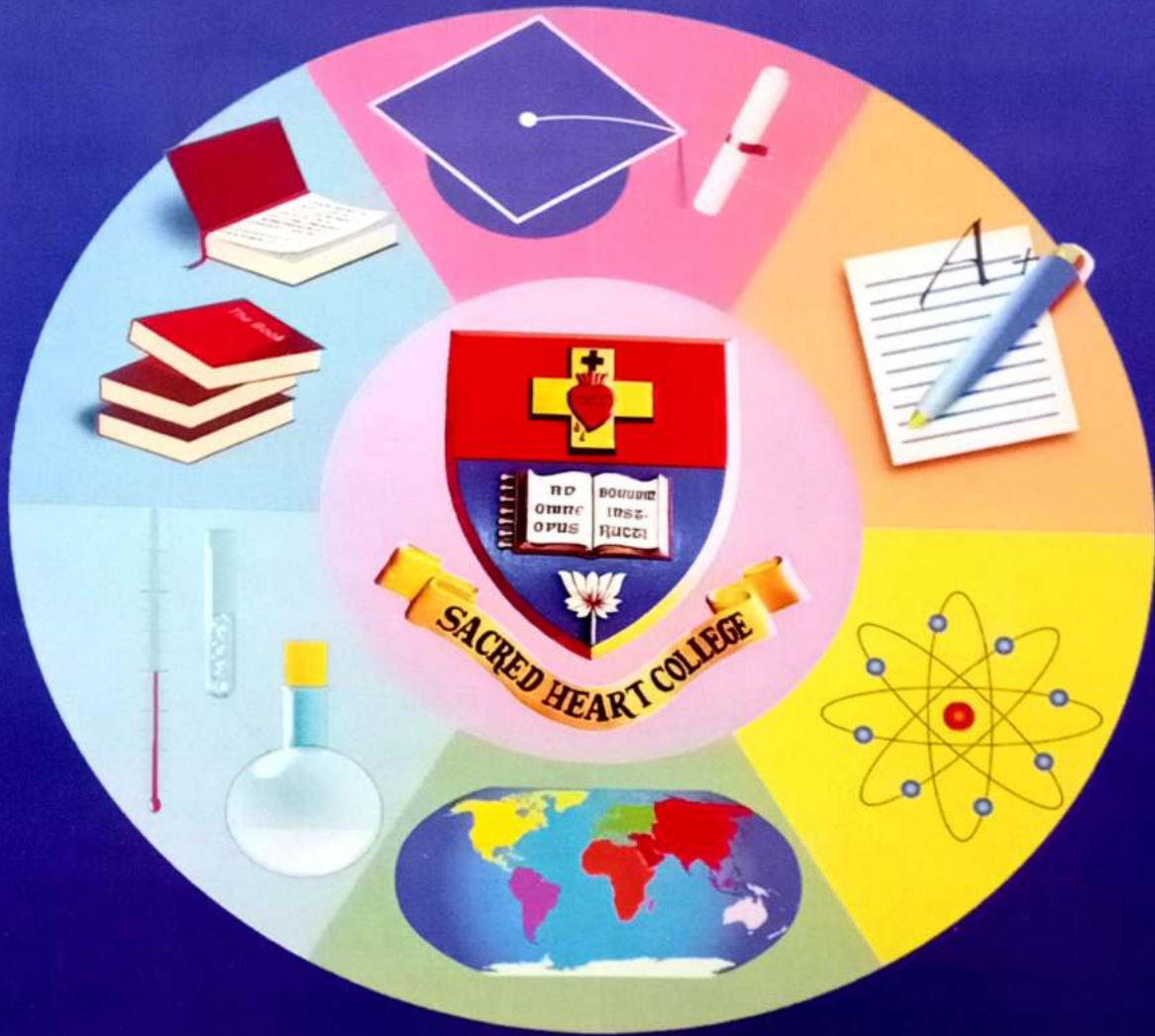
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முனைவர் க. உமா

இணைப்பேராசிரியர், தமிழ்த்துறை

அன்னை ஹாஜிரா பெண்கள் கல்லூரி, மேலப்பாளையம், திருநெல்வேலி.

ஆய்வுச் சுருக்கம்

விலங்கியல் அறிஞர்களின் வகைப்பாடும், தொல்காப்பியர் குறிப்பிடும் விலங்கினச் செய்திகளையும் அடிப்படையாகக் கொண்டு நற்றிணைப் பாடல்களில் குறிப்பிடப்பட்டுள்ள சில விலங்கியல் செய்திகளை விளக்குவதாக இவ்வாய்வு அமைகிறது. விலங்கியலார் குறிப்பிடும் உயிர் வகைகளில் நற்றிணையில் குறிப்பிடப்படும் வகைப்பாடாக, ஊர்வன, பறப்பன, பாலூட்டிகள் என்னும் மூன்று பெரும் பிரிவுகளையும் மற்றும் நீர் வாழ்வன குறித்தும் சில விளக்கங்களும், தொல்காப்பியர் குறிப்பிடும் விலங்கியல் கூறுகளான விலங்குகளின் இளமைப் பெயர்கள், ஆண்பாற் பெயர்கள், பெண்பாற் பெயர்கள் ஆகியன நற்றிணையில் இடம் பெறுவதையும் இவ்வாய்வு எடுத்துரைக்கின்றது.

திறவுச் சொற்கள் : நற்றிணை, தொல்காப்பியம், விலங்கியல், ஊர்வன, பறப்பன, பாலூட்டிகள்

முன்னுரை

சங்க இலக்கியங்களில் வேறெந்த மொழி இலக்கியங்களையும் விட அதிகமான எண்ணிக்கையில் விலங்கினங்கள் குறிப்பிடப்பட்டிருக்கின்றன. இங்கு நற்றிணையில் இடம்பெற்றுள்ள விலங்கினங்களின் பெயர்களும், அவைகளின் தன்மைகளைக் குறித்து இடம்பெற்றுள்ள செய்திகளும் எடுத்துரைக்கப்படுகின்றன. "இந்தியாவில் ஏறக்குறைய 15,000 வகையான விலங்கினங்கள் உள்ளன. அவற்றில் 340 பாலூட்டி வகைகள், 1200 பறவை வகைகள், 420 வகை ஊர்வன, 140 வகை நில நீர் வாழ்வன, 2000 வகை மீன்கள், 5000 வகை பூச்சிகள், 4000 வகை மெல்லுடலிகள் மற்றும் முதுகெலும்பற்ற விலங்குகள் என்பன அடங்குகின்றன". என்கிறார் நாயர்.¹ இவற்றுள் நற்றிணையில் காணப்படும் விலங்கினங்களைத் தொகுத்துக் காண்பதே இவ்வாய்வாகும்.

சங்கப்பாடல்களில் விலங்குகள்

சங்கப் பாடல்களில் இருபத்தேழு வகை விலங்குகள் இடம்பெற்றுள்ளன. அவை, 1.அணில், 2.ஆடு, 3.ஆளி, 4.எருமை, 5.எலி, 6.ஒட்டகம், 7.ஓநாய், 8.கரடி, 9.கழுதை 10.கீரி, 11.குதிரை, 12.குரங்கு, 13.சிங்கம், 14.சிறுத்தை, 15.திமிங்கலம், 16.நரி, 17.நாய், 18.நீர்நாய், 19.பசு-காளை, 20.பன்றி, 21.பூனை, 22.புலி, 23.மான், 24.முயல், 25.முள்ளம் பன்றி, 26.யானை, 27.வெளவால். இவற்றுள் திமிங்கலம், வெளவால் என்பன தனிச்சிறப்புடைய பாலூட்டிகளாகும். இவ்விலங்குகள், சிறுத்தை, பூனை, திமிங்கலம் இவை தவிர்த்து மற்ற அனைத்து விலங்குகளும் ஓரளவு அவற்றின் தன்மைகளும் நற்றிணையில் குறிப்பிடப்படுகின்றன.

ஊர்வன

விலங்குகள் சில ஊர்ந்து செல்லும் இயல்புடையன. ஊர்வன, நிலம் வாழ் விலங்கினங்களாகும் இவற்றுள் ஒருசில நீர்வாழ்வனவாகும். இவற்றின் உடல், புறத்தோல்,



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A SURVEY ON VISION –CONVENTIONAL VEHICLE RE-IDENTIFICATION METHODS

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ABSTRACT: Vehicle re-identification, important expertise of Intelligent Transportation System, and it is vital for the conception of autonomous. By the debauched development of DL, vehicle re-identification approaches involve significant progress in modern processes. Accordingly, creating an inclusive review around the vehicle re-identification systems founded on deep learning is quite essential. DL-based methods intended for re-identify the vehicle, i.e. approaches founded on indigenous structures, approaches constructed learning on depiction, techniques founded on learning for metric, techniques founded on UL, and procedures constructed on consideration mechanism. The major contributions of our survey come from three aspects. First, give a complete evaluation of the current DL-based methods for vehicle re-identification, and promote associate them from features, gains, and difficulties, vehicle communal datasets and relate them from various proportions, and then supplementary deliberate the experimentations and imaginable exploration statistics of vehicle re-identification in the forthcoming originated on the scrutiny.

KEYWORDS: Deep Learning, Intelligent transportation System

1. INTRODUCTION

With the development of autonomous driving and smart city applications, the need to accurately analyse vehicles on urban streets via multiple computer vision tasks such as detection, classification and pose estimation, as well as re-identification. Vehicle re-identification (Re-Id) is a challenging task due to the inter-class similarity, the intra-class difference, and the cross-view misalignment of vehicle parts. Similarity of vehicles and various environment factors such as illuminations, viewpoints, and occlusion, the unique ID of each vehicle.

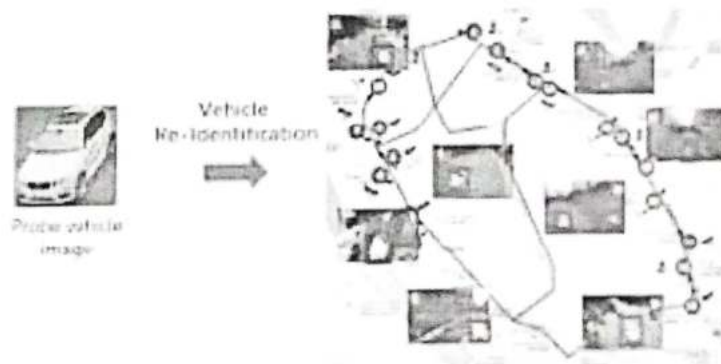


Fig.1: Re-identify the vehicle across multiple cameras

The major disadvantage of Vehicle re-id is to recognize a target vehicle in altered cameras. The advent of Vehicle re-id can be recognized to the cumulative request of

THE RHETORIC OF THE FRONTIER: THE POSTMODERNIST VENTURES IN LARRY MCMURTRY'S FICTION

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Abstract

In the *Lonesome Dove* McMurtry makes his character Augustus McCare tear pages out of his Latin grammar to build a fire on a cold night to keep himself from freezing to death. This is a classic example of postmodernism because Latin is a classical language. Allegory is another aspect of postmodernism. McMurtry uses this as a scaffold to shape his fiction. The theme of physical fragmentation is found in his fiction. The text is characterized by fragmentation and fluidity. The central narrative voice shifts among at least a dozen characters, offering a fragmented postmodern multicultural voice and the assumption of power by other characters. Postmodern artist like Larry McMurtry confront the audience with a multiplicity of styles, a seemingly discordant polyphony of decontextualized voices. Metonymic fragmentation also characterizes his novels. The theorists whom the researcher would like to cite are mainly postmodern thinkers and analysis.

Keywords: voices, postmodernism, voices, multicultural, etc.,

Larry Jeff McMurtry novels are placed in the old Wild West- now modern Texas. Larry McMurtry is a living American writer and is the son of a North Texas ranch owner. His life is always centered round books. His novel the *Lonesome Dove* earned for him the prestigious Pulitzer Award. McMurtry's famous novel the *Lonesome Dove* is the stepping stone to his success. The novel itself reveals his keen observations of the ranch life-of breeding and selling cattle, of horses and stealing horses, of war with Native Americans, of gambling and womanizing and finally instant justice, thereby revealing the hoary nature of the Wild West. Jake Spoon, former Texas Ranger alongside Gus and Call, has roped himself a bright idea: to relocate to Montany. With a team assembled, Call leads the way north from Lonesome Dove to Montany. They have to cross rivers, take shelter from hailstorms, and brave giant clouds of grasshoppers along the way.

Blue Duck intends to sell Lorena to an Indian tribe, and mistreats her in a variety of ways. Jake Spoon completely abandons her-and the cattle company-so it is up to Gus to get her back. July decides to give up his search for Jake Spoon because he receives word that his wife Elmira, has run away. Elmira leaves to look for the man she actually loves, Dee Boot. She finds Dee just as he's about to be hanged. Dee gets into a fight with a guy at a bar and kills him, and Dee's days are numbered. Dee is hanged and Elmira is distraught. They have robbed, killed, burned property, and, worst of all, stolen horses. So Gus and Call decide to catch the men and hang them. It comes as a surprise that Jake Spoon is with them. She also thinks Call should tell new with his father. After a few casualties, and tragedies along the way, the cattle company finally reaches Montana. It is as beautiful as Jake said it was, even though he's not there to see it anymore. The cattle company's lead scout, Deets, is killed by an Indian tribe, leaving Gus to take the point position. He, too, is shot with an arrow, and he is forced to practically crawl to the nearest town. By the time he gets there, it is too late to save both legs. But instead of going on with life on a pair of stumps, Gus decides to choose death. Gus's final wish is for Call to take his body to a grove where he used to charm Clara. Call travels all the way back South. Along the way, he delivers the news of Gus's death to Lorena and Clara, who are sad that he is dead. July Johnson gives her the lamest marriage proposal ever. She turns him down but says she might reconsider after a year, if he would just stop being so lazy and useless. He has spent forty years on the border and the frontier, many of those with his more talkative but equally respected late partner, Gus McCrae. Protecting

chief Buffalo Hump leads his nation on the warpath. They burn much of Austin, killing Clara's parents and ravaging fellow Ranger Long Bill Coleman's wife, Pearl. Maggie, having been prepared by Call, hides under a smokehouse, thus escaping the Comanches' notice. Scull handles the cage so well that Ahumado has him taken down, and has his henchman Goyeto cut off his eyelids. The Rangers go to Lonesome Dove in search of cattleman Captain King. Ahumado has been bitten by a brown recluse spider, and goes South to die. Call and McCrae find Scull going insane in a pit, but the rescue is soon enough to allow Scull to mostly recover. Scull returns to Austin and later becomes a general with the Union army. Because of the eyepieces he has devised, he becomes known as "Blinders" Scull. Meanwhile, Buffalo Hump banishes his half-Mexican son Blue Duck. Blue Duck goes East and acquires wealth and notoriety as the leader of a gang of bandits.

At this point, the novel moves more quickly, giving highlights covering the period leading up to the sequel, *Lonesome Dove*. The Civil War takes most of the soldiers away from the frontier, enabling the Comanches to push back the white settlers. Buffalo Hump has gone off to die. Blue Duck hears of this and leaves his cutthroats to pursue his father. The Rangers attack his band, but Blue Duck, having left, evades capture. He finds his father at his chosen place of death and kills him there. Maggie dies while the Rangers are on this expedition.

Lonesome Dove is popular the major themes incorporated are Man and the Natural World, Man and the Natural World quotes, Love, Gender, Marriage, Mortality, Respect and Reputation, Friendship, Principles, Race, Life, Consciousness and Existence. All these genres highlight the frontier novels of Larry McMurtry. Rhetoric is the art of discourse, wherein a writer or speaker strives to inform, persuade or motivate particular audiences in specific situations. As a subject of formal study and a productive civic practice, rhetoric has played a central role in the European tradition. Along with grammar and logic or dialectic-see Martianus Capella, rhetoric is one of the three ancient arts of discourse.

When those using criticism analyse instances of rhetoric what they do is called rhetorical criticism. According to rhetorical critic Jim A. Kuypers, "The use of rhetoric is an art; as such, it does not lend itself well to scientific methods of analysis. Criticism is an art as well; as such, it is particularly well suited for examining rhetorical creations" (72). He asserts that criticism is a method of generating knowledge.

Rhetorical strategies are the efforts made by authors to persuade or inform their readers. Rhetorical strategies are employed by writers and refer to the different ways they can persuade the reader. According to Gray, there are various argument strategies used in writing. He describes four of these as argument from analogy, argument from absurdity, thought experiments, and inference to the best explanation. The debates surrounding this popular text have questioned the value of the myth and the frontier to American identity.

In the *Lonesome Dove* McMurtry makes his character Augustus McCare tear pages out of his Latin grammar to build a fire on a cold night to keep himself from freezing to death. This is a classic example of postmodernism because Latin is a classical language. Allegory is another aspects of postmodernism. McMurtry uses this as a scaffold to shape his fiction. The theme of physical fragmentation is found in his fiction. The text is characterized by fragmentation and fluidity. The central narrative voice shifts among at least a dozen characters, offering a fragmented postmodern multicultural voice and the assumption of power by other characters.

Postmodern artist like Larry McMurtry confront the audience with a multiplicity of styles, a seemingly discordant polyphony of decontextualized voices. Metonymic fragmentation also characterizes his novels. The theorists whom the researcher would like to cite are mainly postmodern thinkers and analysis.

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Green's Relation And Our More Special Relations	Entreaty Of Intuitionistic Fuzzy Soft Matrices	Some Annotations On Almost And Pseudo Almost	On Generalized Sequentially Connectedness
Some Results On Harmonic Mean Graphs	Skolem Difference Odd Geometric Mean Labeling	Path Kernel And Protein Similarity/ Dissimilarity	A Comparative Study On Mamdani Fuzzy Model
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An Intuitionistic Fuzzy Multiset	Burning Number For A Few Graphs	Intuitionistic Fuzzy Sets And Its Applications	New Chaos Based Gorilla Troop Optimizers (Cbgt)
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Greetings from the team of RRE.

With joy and gratitude to God, we are bringing out this special issue while we celebrate the 100th year of St. Xavier's College(Autonomous), Palayamkottai. This special issue contains the research articles submitted for the International Conference on Recent Developments in Pure and Applied Mathematics (ICRDPAAM-2022) organized by the PG and Research Department of Mathematics, during 19-21, July-2022.

As known, due to the massive development in pure and applied Mathematical areas in the field of educational studies, a diverse range of efforts has been directed towards collaborative research activities among the institutions and the industries including meeting between scientists / researchers and experts from different backgrounds, so that the sharing of knowledge and updates on latest progress in pure and applied Mathematics can be incorporated into the mathematical education to enhance the learning methods of mathematics.

This issue has thirty papers branching out various fields of mathematics and their applications. In total, all the papers have the unique ways to bring out a new area of research to add strength to our teaching profession.

While we thank our authors for their steadfast respect and love for our journal, do write to us your comments, dear readers and we assure our quality read in the days to come.

Thanking you

Editorial Team

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OPERATION ORDER DIVISOR GRAPH OF A GROUP

ABSTRACT

Consider a finite group $(G, *)$. The Operation Order Divisor graph $\Gamma_{ood}(G)$ of G is a graph with $V(\Gamma_{ood}(G)) = G$ and two different vertices a and b have an edge in $\Gamma_{ood}(G)$ if and only if either $O(a)|O(a * b)$ or $O(b)|O(a * b)$. Here we are going to compare the properties of G and the properties of $\Gamma_{ood}(G)$.

Keywords : Operation Order Divisor graph, complete graph, finite group.

MSC 2010: 05C 25

Introduction:

The algebraic graph theory becomes an exciting research topic in the last twenty years. Many researches are developed on getting a graph from an algebra structure and then find out the properties of the algebraic structure using the resulting graph.

The terms and definitions in graph theory are referred from [5] and for that of algebra are referred from [6].

In 2009, Sattanathan and Kala[7] introduced order prime graph of a group. In this graph vertices are the group elements and any two vertices are adjacent if and only if their orders are relatively prime. The concept of an order divisor graph of a group is introduced in [8] and in [9] with a slight change. While [8] defined it on elements of a finite group, [9] defined it on subgroups of a finite group. For [8], the order divisor graph, denoted as $OD(G)$, whose vertex set is G such that two distinct vertices x and y having different orders are adjacent provided that $O(x)|O(y)$ or $O(y)|O(x)$.

Motivated by these concepts, we define and introduce the concept of operation order divisor graphs.

Operation order divisor graph

Here we discuss about some preliminary properties of operation order divisor graphs.

Proposition 2.1 Consider a finite group $(G, *)$ with order n and identity e . Then the degree of e in $\Gamma_{ood}(G)$ is $n-1$.

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DEEP NEURAL NETWORK APPROACH FOR VEHICLE IDENTIFICATION IN INTELLIGENT TRANSPORTATION SYSTEMS

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ABSTRACT

Accidents can be decreased by detecting and tracking vehicles. Objects in the frame are located, along with their positions and classifications, by vehicles. Regionally based item detection was successful, according to researchers. We suggest a region-based deep learning network to find vehicles. Region-based learning is used by faster and grid-based RCNNs. The suggested method can find multiple automobiles. The primary duty of ITS is vehicle classification. This study suggests categorizing vehicles based on their points of view using an SVM and HOG. Numerous items are examined. The plan can assist law enforcement in both securing the car from thieves and physically identifying it via videotaped surveillance. Despite SVM's accuracy, its execution time is unreasonably long due to human fatigue from watching numerous movies and photos. Employing a business is expensive. CNN categorizes vehicle views using SVM, Decision Tree, Random Forest, etc. Today, the method enhances vehicle viewpoint classification. Front, back, and side perspectives are used in the suggested classification of the vehicle. Images of cars are categorized by CNN. According to the evaluation, DeepVehicleNet can function effectively in practical transportation and autonomous driving systems. ITS applications benefit from vehicle-re-identification. The SCRM Network is suggested in this study to increase the accuracy of vehicle re-identification. The Scale-Integrated Feature Mapping Framework of this network extracts notable channel features. The suggested work performs better than earlier ones.

Keywords: Grid RCNN, DeepVehicleNet, SCRM, CBCL, KITTI, VERI, VRIC

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1. INTRODUCTION

The field of computer visualization focuses on how computers can enhance future image perception. In order to deliver numerical or symbolic information, computer visualization projects gather, assess, develop, and decide on digital images as well as extract high-dimensional data from the actual world. Vehicle detection is a problem for image processing. It is commonly used in computer vision. Understanding an image necessitates not just classifying various representations but also roughly estimating the locations of various elements inside each representation. The ability to recognize objects, a major problem in computer visualization, can help with

interpreting linguistic images. Through careful research, objects were discovered. On road images, deep learning-based vehicle detection performs well. With significant brightness, occlusion, and object level discrepancies, real-time vehicle detection fails. This research recommends region-based deep learning rather than processing the entire image.

Reconnaissance images are widely available in well-known cities. Connecting inspection structures watch while also penetrating. The focus of this study is on actions from many angles. Analysis and ITS used by the probing analyzer for scope. The searching analyzer requires viewpoint information as well as vehicle categorization for vehicle detection. The



mAP in Grid RCNN for vehicle detection, DeepVehicleNet, viewpoint classification method achieved 94.42% of accuracy, 93.43% of precision, 94.26% of recall, 93.84% of F1-score and mAP of 94.52%. Our trained DeepVehicleNet model should help ITS. And confidence that in the imminent, superior benchmark of datasets on vehicles beginning direction or position of the vehicle become supplied, also by consuming them, DeepVehicleNet accuracy increases enhance. After preliminary results, discard that the DeepVehicleNet is real to transportation on classifications the vehicle then stout near their vehicle perspectives. Scale-Integrated Cross Residual Multi-Series (SCRM) Network is proposed to improve vehicle re-identification accuracy. SCRM accomplished 89.64% of rank-1, 93.71 of rank – 5 accuracy and 67.29% of mAP, A Scale-Integrated Feature Mapping Framework adds an attention mechanism for channel features better than the other models.

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SOCIAL DISCRIMINATION ON RICHARDWRIGHTS' *NATIVE SON*

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Abstract

Wright was driven by the quest to defend Black humanity against the cultural dominance of white supremacist ideas and practices. His work might be understood as a defense of black humanity against the cultural domination of beliefs and practices held by white supremacists. The novel *Native Son* is often regarded as the peak of black American melancholy. It is about the social incompatibility that exists in the United States, the influence of one's social surroundings on human behaviour, as well as crime and the punishment that is meted out to blacks in a Social discrimination on the nation.

Keywords: Humanity, Belief, Social, Culture, etc.,

Richard Wright was a sensitive black thinker who lived in an atmosphere that was racist and believed that all black people in the United States were native sons. Despite the challenges he faced there, Wright had a deep affection for the state in where he was born. The southern plantations saw great success. It was founded on the principles of white supremacy, domination, and the slavery of black people. Delta blacks were disenfranchised and denied schooling. In the one-room structures, families were responsible for sleeping, eating, and other daily activities. In his book "*Native Son*," Addison Gayle describes how he witnessed the Delta as a place where "the human spirit was crushed" and "the urge for freedom was non-existent." He detested the idea (NS 34). The book "*Native Son*" was not the first work of protest writing by a black American author to appear in American literature; however, the book's popularity and visibility provided inspiration and encouragement to other black American authors who would later become members of "the Wright School of Protest". In many forms of American literary expression, the theme of protest is present. The film "A Native Son" solidified a pattern and pushed the boundaries of race interactions farther. Wright's way of thinking was significantly influenced by his engagement with Marxism and the communist party. Fear, Flight, and Fate are the three parts of *Native Son* that outline Bigger Thomas' complicity in the murder of a White girl. This is done from the perspective of Fear, Flight, and Fate. Mary Dalton, Bigger's flight with a Negro girl, his murder of Bessie Mears, and his capture by the police; and his trial, which allows his Marxist lawyer, Boris Max, to bombard Bigger and society with political propaganda. Mary Dalton, Bigger's flight with a Negro girl, his murder of Bessie Mears, and his capture by the police; and his trial, which allows his Marxist lawyer Early critics of the book said that it was a malicious tract that encouraged black people to hate white people. According to Nick Aaron Ford, "White people are bigger hated." Without any provocation, he took their lives. He despised white people for his unfortunate circumstances and felt as though he had been robbed out of everything great in life (28).

The concept of the book and its name. All of Bigger's other worries can be traced back to this one. Fear motivates Bigger's conduct. He holds a terrible prejudice towards white people. He is aware that they are the source of his immobility and irritation, but he cannot admit it since it would have severe implications. self-hatred. As a result, he takes his hostility and aggressiveness out on other black people in order to calm his own ego. He is afraid to steal from a White storekeeper, and he is afraid that his friends can read his mind, so he attacks his friends in order to demonstrate that he is brave. He despises Mary Dalton because he is certain that she will undermine his efforts. He interprets her advances as an attempt to make him look foolish. He kills her because he is afraid that she would take his assistance in the wrong way. Bigger is a horrible and nasty concept. His show of bravado and propensity toward violence are both illusory attempts to compensate for his anxiety.

In the opening to the book, Wight makes the argument that since Bigger is a Negro, he is not allowed to enter the White civilisation, the glitter of which he observed in newspapers, magazines, radios, movies, and everyday life in the United States. Bigger is a helpless victim of the culture that conditioned him; nonetheless, his acts are driven by rage and fear, which results in constructive revenge. During that night, there was a white girl sleeping in a bed with a black boy standing over her, who was afraid of her and hated her. A blind woman entered

the room just as the African-American kid was about to kill the white girl to save himself from the death penalty. The author Richard Wright: "After he had murdered Mary Dalton, he was overcome with the guilt of having murdered a White woman. Fear prevented him from reacting to the news that Bessie had passed away. During the scene that takes place in the courtroom, Max tells the judge and the jury that "This Negro boy's entire attitude toward life is a crime." Max continues by saying that "the hate and fear we have inspired in him, woven by our civilization into the very structure of his consciousness, into his blood and bones, into the hourly functioning of his personality have become the justification for his existence" (NS 366-69).

According to Baldwin, the "nigger," the symbol of the African-American people, is larger. He describes it as "that glorious and awful picture we've lived with since the first slave went under the lash" (33-34). Bigger Thomas is stationed away from the traditional culture of the African-Americans where he was born, yet he has kept the fears, hatreds, and frustrations of that community. Bigger, much like Wright, straddles the line between white people and black people. Negroes experience both unhappiness and anxiety as a result of the limitations imposed by whites. Bigger and his gang want to rob a white-owned company, but Bigger is worried that they may face retribution from a foreign white nation. The narrative of Bigger, which figuratively impacts a nation, is epic, and the events that transpire within it symbolise great judgements. The author of *A Native Son*, Max, a lawyer, draws attention to the stifled and twisted way of life in the United States. White Americans absolutely need to adopt a new way of living. Max gives the following piece of advice: "If we're none of these, we shouldn't be surprised when frustrated life emerges as fear, hate, and crime" (Native Son 358-359). According to Max, the narrative centers on the emotions of fear, hatred, and guilt (Native Son 345). After killing Mary without realising it, Bigger turned away in a frenzy of fright, as if he were falling asleep in a dream. Near the end of the novel, *Native Son* is an argument against American racism, which claims that the environment in which African Americans live is the primary contributor to their criminal behaviour. The novel *Native Son* is often regarded as the peak of black American melancholy. It is about the social incompatibility that exists in the United States, the influence of one's social surroundings on human behaviour, as well as crime and the punishment that is meted out to blacks in a culture that is racist.

The black community is plagued with apathy, and black men in the United States suffer major issues of racial injustice. Because he felt that things weren't fair, he got interested in the problems that black males face. After the dishonesty of communism, he turned to existentialism as a result of his quest for a method to eliminate human differences, but he was unsuccessful in this endeavour. In his opinion, the white man represented a series of problems that were desperate for a solution. This compelled him to give attention to the fight against colonialism, and so he travelled to Ghana, which was referred to as the Gold Coast in the 1950s and before it gained its independence, in order to experience the suffering that existed there. He penned his thoughts down in a book named "Black Power," which went on to become a rallying cry for a variety of liberation organisations for African Americans as well as a symbol of African Americans in the United States who take pride in who they are and where they come from. Because of his title, African old Western colonialism expressed concern that Wright might eventually become a leader of black movements and the Alliance of Black Peoples.

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LIMINALITY IN CHILDREN LITERATURE: A STUDY ON ENID BLYTON'S THE ENCHANTED WOOD

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Abstract : This research paper deals with the concept of imitation. According to Aristotle, all works of art must be the experience of the author and there is nothing new in it. Likewise, Blyton has consciously or unconsciously mentioned some of her life experiences in her books. She had fulfilled all her wishes and desires through her writings. In addition to that, though she projected herself as a strong and prominent writer in the field of children's literature, she failed to find success in all the struggles in her personal life. Applying this concept to the works of Enid Blyton reveals that she is a victim of familial restrictions and a self-made person. Thus, this paper deals with two major ideas: imitation and liminality. Blyton's book *The Enchanted Wood* is an imitation of her own life experience and she is a liminal survivor of her life

KEY WORDS: imitation, survival, mimises, utopia.

Plato coined the term 'mimesis' between CA. 427 – 347 BC. It is taken from the Greek verb 'mimeisthai', which means "to imitate". This term is commonly used in literary criticism and philosophy. It has a deep meaning in it, like imitation, similarity, receptivity, the act of resembling and many. Plato was a great literary stylist and philosopher and his philosophy led him to some doubts about the nature of poetry (literature). Plato defines poetry (literature) as the nature of representation and, in his words; he called it 'Mimesis', representation or imitation of the world through artistic means. He says every work of art is a copy of a copy and leads humans away from the truth.

Aristotle (384-322), the great disciple of Plato, and the first person who delivered his first influential response to his argument on mimesis, he argues that literature is not a copy of a copy but that it reflects and represents reality. The view and meaning of mimesis change according to the critic. Its meaning has changed and been reinterpreted many times. Mimesis has been theorised by many thinkers, like Aristotle, Philip Sidney, Samuel Taylor Coleridge, Sigmund Freud, Luce Irigaray, Jacques Derrida, Homi. K. Bhabha and many. Every critic places this theory in their concept and provides different meanings for the same term.

Plato and Aristotle depict mimesis as the representation of nature, including human nature (psyche). Plato wrote about mimesis in both *Ion* and *The Republic* (Books II, III, and X). To him, a work of art is twice removed from the truth or reality. Aristotle's *Poetics* (a response to Plato's philosophy, it is his treaties on the subject of mimesis). In this book, he states that human

Things did not go very well the next week. Father lost some money one night, and Mother could not get very much washing to do. So money was very scarce, and the children did not have as much to eat as they would have liked.

‘If only we could have a few hens!’ sighed Mother. ‘They would at least give us eggs to eat. And a little goat gives us milk.

‘And what I want is a new garden shovel,’ said Father. ‘Mine broke yesterday and I can’t get on with the garden. It’s very important that we should grow as many vegetables as possible, for we can’t afford to buy them. (118)

The father is in an imbalanced position. He is not economically well. His feeling and incapable of bringing money threatens him and he reveals it to others as anger. Blyton has depicted the psyche of a common person in the industrial society through this character. Industries helped the nation to grow but it failed to care about the ordinary person. According to the scenario of industrial society in England, the rich always remain as rich and the poor were pulled below the poverty line. Though the industrialists ruined the lives of people, nature is there to protect them. In the situation of survival and food, they seek the help of nature as the presence of hens and goats in their home will help them to survive.

On the other hand, her portrayal of all the lands and incidents shows that Blyton herself is an ‘escapist’. Escapism is the avoidance of unpleasant, boring, arduous, scary or banal aspects of daily life. And this term can also define the actions taken to help persistent feelings of depression or general sadness. If the reader reads this book from the perspective of ecology and industrialization, the psyche of Blyton will seek the utopian world and wants to leave this materialistic world.

Blyton’s portrayal of incidents and dialogues depicts her hatred of the modern world. As she has grown with nature, the cutting of trees and deforestation made her sick in most of her novels both for children and youth she shares her view of the cruel materialistic world and the magnificence of nature. This entire Magic Faraway Series is a voice for the voiceless elements which tries to save nature from the hands of money-minded industrialists. And also depicts the life of humans in the space of liminality.

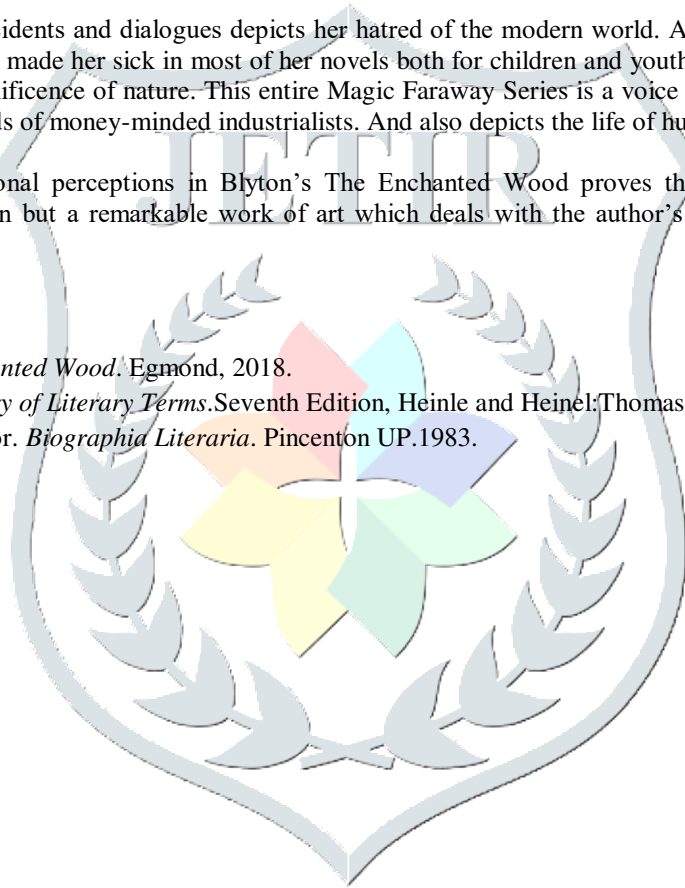
Thus the multidimensional perceptions in Blyton’s *The Enchanted Wood* proves that this book is not just a story entertaining the budding children but a remarkable work of art which deals with the author’s psyche and the social issues of England.

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MARGARET DRABBLE'S THE RED QUEEN: THE PHASES OF LIFE

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Abstract:

This novel interrogates about the universal transcultural human characteristics. The Crown Princess is the starting point for exploration of this novel. The Crown Princess is a woman and read all the works of Voltaire. The Crown Princess loved her father-in-law and husband and children. This novel dictates the following of customs. This novel can be segregated into three parts. They are mainly: ancient times, modern times and postmodern times. So, this novel deals with composition of memories can be chronologies. *The Red Queen* started unexpectedly from childhood stage to marriage. This novel talks about her husband's madness and absurdness of the society. This is the storming story and double hinged narrative. She married at nine in 1744. This novel talks about childhood marriage and sexual harassment. This novel is about male domination, psychological stresses of women, suffering of female protagonists by male domination.

Keywords: Memories, Society, Voltaire, Absurdness, Customs.

There are several interrogations rises by Margaret Drabble through the character of The Crown Princess in *The Red Queen*. The crown princess feels that her freedom losses after marriage. She did not feel when she was with her brother, mother and father. But now she feel after marriage she losses her freedom and independence.

All these childish times came to an end when my parents put my name forward for the threefold royal selection ceremony for a royal bride. They justified this decision as their 'duty', for I was grandchild of a distinguished minister. They said they feared disgrace if I were not offered for the sacrifice, and claimed they were afraid to conceal me. My mother later swore that she hoped and believed that I would be rejected. I do not know how much truth there was in this: certainly she wept copiously when she discovered the way the wind was blowing, and even my father turned pale. I myself had no hopes, fears or expectations (TRQ 14).

The crown princess gets bewildered, she asked herself in her mind that who she wants to blame, because she does not know about who is responsible for her life's spoiling whether her parents, whether her husband, whether her mother-in-law and whether her father-in-law. She wants to know that who are responsible for her spoiling of life.

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Environmental Remediation of Real Textile Dyeing Wastewater Under Visible Light and Inactivation of Pathogenic Bacteria Using ZnO/CuO Nano-Needles

Bhaviya Raj Ramaraj, Umadevi Mahalingam,* Parimaladevi Ramasamy, Joshua M. Pearce, Jeyanthinath Mayandi, and Anuratha Mahalingam

Textile industries have an immense existence in a country's economy. Large quantity of water is consumed by textile dyeing industries and produces volumes of wastewater. Treating these hazardous effluents to make them environmental friendly, using nanocatalysts is the best promising method. Metal oxide nanomaterials have emerged as an important tool for environmental remediation. Herein the hydrothermally synthesized ecofriendly and low-cost zinc oxide/copper oxide nanocomposites (ZnO/CuO NCs) with different proportions of binary oxides are evaluated for the applications of degrading organic pollutants and antibacterial activity. The influence of doping is also studied in structural, optical, morphological, photocatalytic, and antibacterial activities. The presence of CuO in NCs affirms the formation of ZnO/CuO NCs. Photodegradation of Congo Red (CR) and real textile dyeing wastewater (TDW) under visible light irradiation by 0.5 M ZnO:0.5 M CuO NCs reveal them to act as a perfect catalyst by tuning doping concentration of Cu in ZnO, with 1.9×10^{-3} and $5.4 \times 10^{-3} \text{ M min}^{-1}$ rate constant. Hybrid nanocomposite materials exhibit high antibacterial activity against *Staphylococcus aureus* and *Escherichia coli* with 5 and 6 mm inhibition zone. The experimental characteristics of NCs are explained by a combination of electronic band structure due to size effect and tuning metal oxide proportions in comparison to that of pure metal oxide.

1. Introduction

Water is the basic requirement for the survival of living beings all around the world. Advancements in technologies and industries have improved the livelihood of humans in several aspects. Industries use large quantities of water and as a result produce volumes of wastewater that is led into the environment without treatment, and have become a primary concern. Among various industrial sectors, textile dyeing industries are considered to be one of the oldest and largest industries that use varieties of dyes, and chemicals and the largest consumers of water depending on the fabrics manufactured, and produce large quantities of wastewater containing organic and inorganic compounds. These textile effluents contain high amounts of dissolved and suspended solids, chemicals, colors, odor, biological oxygen demand, and chemical oxygen demand.^[1] Among them, dyeing wastewater from the textile industries is toxic and may cause several diseases like skin ulcer, skin irritation,

hemorrhage, etc. To protect the environment, the toxicity of dye wastewater should be minimized by treating them before discharge. India is the world's second-largest textiles and garments producer and fifth-largest textiles exporter. The government of India has allocated $\approx 3,631.64$ crore INR (US\$ 497.70 million) under the Union Budget 2021–22 to the Ministry of Textiles (www.ibef.org). In Tamil Nadu, Tirupur, Coimbatore, and Chennai are considered to be the key textiles and apparel zones in India. There are more than 2267 textile units in Tamil Nadu providing Common Effluent Treatment Plants and Individual Effluent Treatment Plants.^[2] The hazardous pollutants in the dyeing wastewater must be treated before being led into the environment.


Multifunctional and eco-friendly nanocomposites (NCs) have drawn tremendous attention in the field of nanomaterial science.^[3] The hydrothermal method is a cost-effective and versatile process for the production of NCs with high surface areas for several applications including anticancer materials and bactericides.^[4,5] Metal nanoparticles (NPs) exhibit physical and chemical properties that differ from that of bulk materials

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and may exhibit advanced catalytic activity. Transition metal oxides are widely studied due to their varied metal-to-oxygen ratio, different structures, properties, and applications.^[6] Among them zinc oxide (ZnO), II–VI transition metal oxide is considered to be the heart of technological applications which includes UV-light and blue-light emitting and laser diodes, transparent electrodes, field-effect transistors, photodetectors, solar cells, and piezoelectric generators.^[7] Only a small portion of the solar spectrum in the UV region can be absorbed by ZnO to improve its efficiency further, and some metals are loaded on the semiconductor surface.^[8] Due to its inimitable catalytic, UV-filtering, antibacterial, anti-inflammatory, and anti-fungicidal properties owing to its smaller size, ZnO has gained immense attention.^[9] The performances of nanosized ZnO as photocatalysts and antibacterial agents can also be influenced by doping metal ions into ZnO.^[10]

Doping affects the dynamics of recombination of electron–hole pairs and interfacial charge transfer. One such example is a copper oxide (CuO). CuO-modified ZnO can be used by researchers to increase the visible-light response range and to reduce the recombination of photogenerated electron holes of ZnO and thereby improving the photocatalytic effect. CuO is considered to be the most important p-type semiconductor with a wide bandgap (E_g) between 1.8 and 2.5 eV.^[11] It has obtained increasing interest due to its effective applications in photovoltaics (PV) and conversion of solar energy and degradation of organic pollutants by photocatalytic activity. Nanostructured CuO-based materials have been widely investigated because they are inexpensive, the cohesion of chemicals, non-toxicity and eco-friendly. Zhang et al. showed that higher photocatalytic efficiency than pure ZnO resulted from CuO/ZnO composite hollow spheres in degrading methylene blue.^[12] According to the study by Mansournia and Ghaderi, CuO/ZnO increased the response range to visible light and effectively affected the photoinduced electron–hole pairs.^[13] Nelsa et al. studied the dye sensitized solar cell (DSSC) application of CuO/ZnO NCs synthesized by a simple solution-based two-step method.^[14] Engineering CuO nanorod/ZnO nanowire hybrid nanostructure photoanode in DSSC was reported by Kilic et al.^[15] To fabricate ZnO/CuO NC, the hydrothermal method is used here because it is a cost-effective and versatile process for the production of highly efficient NPs with high surface area.

Perturbation to living beings has occurred due to the release of organic pollutants into the environment such as dyes in the waste water. The most extensively used dyes in textile dyeing industries among different classes of synthetic dyes are the azo dyes. Like other dyes, Congo red (CR) are very stable because of its complex aromatic structure, and hence it is not easily degradable.^[16] For the remediation of dye wastewater, the requirement of environmental-friendly, less-costly, and low-toxic metabolites is required. The elements that are not removed by conventional oxidation processes are done by the hydroxyl free radicals developed by advanced oxidation processes (AOPs).^[17,18] Generation of OH[•] radicals by chemical, mechanical, and electrical energy is the main oxidative power of AOPs.^[19] Photocatalytic degradation of purifying wastewater has attracted much attention as it is economic, is environment–friendly, and does not form slurry and toxic fumes during evaporation.^[20] According to the World Health Organization, *Staphylococcus aureus* is categorized

as high precedence bacterium. *Escherichia coli* and *S. aureus* are the dangerous pathogens that create a speedy resistance to antibiotics.^[3] The degradation of methylene blue and methyl orange by photocatalytic activity under visible-light irradiation in the presence of various percentages of composite catalyst synthesized by the thermal decomposition was studied by Saravanan et al.^[20] Tongqin et al. evaluated the photodegradation of methylene blue and methyl orange by hydrothermally synthesized ZnO/CuO NCs.^[21] Sathishkumar et al. attempted to report the degradation of Acid Red 88 in aqueous solutions by wet-impregnation method under visible-light irradiation by CuO/ZnO nano photocatalyst.^[22] Khatoon et al. studied the antibacterial and antifungal properties of silver (Ag) and gold (Au) NPs and Ag NPs synthesized by trisodium citrate.^[23,24] ZnO is effective in degrading organic pollutants, where some studies reported on photocatalytic activity against different dyes and pathogens with ZnO, CuO, and CuO/ZnO, treating CR and real textile dye wastewater (TDW) under visible light for photocatalytic with different ratios of Cu in ZnO has rarely been reported. In this work, we intend to study the photodegradation and photodecolorization of CR and real TDW under visible-light irradiation by hydrothermally synthesized ZnO/CuO NCs, and as antibacterial agents against pathogenic bacteria.

2. Results and Discussion

2.1. Structural, Morphological, and Optical Studies

Figure 1 shows the X-ray diffraction (XRD) pattern of hydrothermally synthesized ZnO NPs, CuO NPs, and ZnO/CuO NCs. The diffraction peaks were in good concord with standard data (JCPDS-89-1397) hexagonal wurtzite structure and with the space

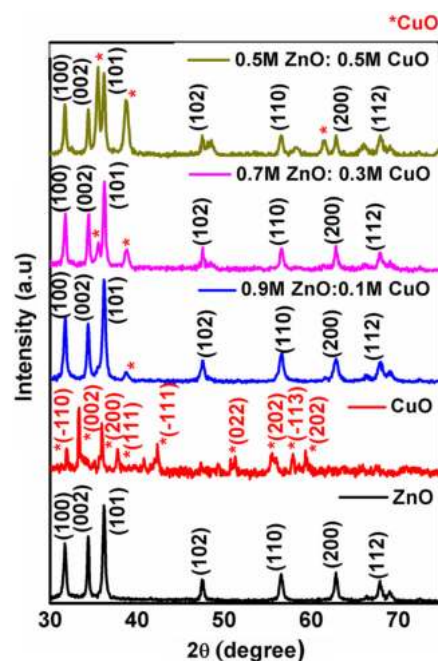


Figure 1. X-ray diffraction (XRD) pattern of ZnO nanoparticles (NPs), CuO NPs, and ZnO/CuO nanocomposites (NCs).

Data Availability Statement

The data that support the findings of this study are available from the corresponding author upon reasonable request.

Keywords

antibacterial activity, Congo red, needle-like, photocatalytic activity, real textile dyeing wastewater, ZnO/CuO nanocomposites

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CULTURE SPECIFIC CONFLICT IN ALIEN LAND PORTRAYED IN CHITRA BANERJEE DIVAKARUNI'S THE UNKNOWN ERRORS OF OUR LIVES

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Abstract : Being an immigrant to the American Countries, the female protagonists of Chitra Banerjee Divakaruni, struggle to overlook the culture and habits they follow in native country. This paper aims to trace the displacement of Mrs. Dutta from "Mrs. Dutta writes a letter", Mira from *The Intelligence of the Wild Things*, Radhika from *The Blooming Season for Cacti* and Ruchira from *The Unknown Errors of Our Lives*. It analyzes Diasporic consciousness like alienation, rootlessness, loneliness, and nostalgia. Divakaruni in the short stories clearly reflects the immigrant experience that comes out of the immigrant settlement. All these characters tried to scrutinize and re-evaluate the tradition and culture of their homelands in an alien environment.

Chitra Banerjee Divakaruni, an Indian born American author focuses on the experience of South Asian immigrants. Though she began her writing career as a poet, she wrote short stories and novels. *The Palace of Illusions*, a re-telling of the Indian epic- *The Mahabharata* from Draupathi's perspective made her a National Best-Seller in India. She was the recipient of American Book Award and Pushcart Prize for her short story collections.

The paper analyzes the female character of the four stories, "Mrs. Dutta writes a letter", "The Intelligence of the Wild Things", "The Blooming Season for Cacti" and *The Unknown Errors of Our Lives* and how they face the problems of cultural contradictions.

Key Words - Cultural Diaspora, Displacement, Cultural Identity, Alienation, Loneliness and Nostalgia.

"Mrs. Dutta Writes a Letter" is one of Chitra Banerjee Divakaruni's stories explores the culture shock encountered by Mrs. Dutta and her experience as an immigrant. Mrs. Dutta is raised and conditioned to be dependent on men by her surroundings since her childhood. But later in her life when her husband died and she had to fend for herself and her son in California discovers that her old Orthodox world ways causing embarrassment to her daughter- in- law Shyamoli.

Mrs. Dutta attempts to do everything by herself. She tries to wake up early in the morning that distracts others sleep. When she prepared Indian food Shyamoli initially enjoyed but later became worried about cholesterol in it. Mrs. Dutta is terrified of the washing machine than washing on her own. She is surprised when Shyamoli did not say or punish the children for being disrespectful to elders.

Throughout the story, she compares American behavior with Indian customs and beliefs. The cultural conflict that is created in their lives is beautifully portrayed. Mrs. Dutta has been raised to be a traditional Indian wife was taught to get up early in the morning. Mrs. Dutta has trouble in adjusting to American lifestyle. The narrator explains, washing clothes using electronic devices with their cryptic symbols and rows of gleaming knob terrified her. She is over whelmed by a highly technologically advanced machine.

Another trouble she gets into is the uncared nature of the neighbors.

When she first arrived in Sagar's home, Mrs. Dutta wanted to go over and meet her next-door neighbors, maybe take them some of her special rose-water rasogollahs, as she'd often done with Mrs. Basu. But Shayamoli said she shouldn't. Such things were not the custom in California... ("Mrs. Dutta Writes A Letter" 21).

Here everyone was busy, they didn't sit around chatting, drinking endless cups of sugar tea. Why, they might even say something unpleasant to her... "For what?" Mrs. Dutta had asked disbelievingly, and Shyamoli had said, "Because Americans don't like neighbors to – here she used an English phrase – "invade their privacy". Mrs. Dutta, who didn't fully understand the word privacy because there was no such term in Bengali, had gazed at her daughter-in-law in some bewilderment. But she understood enough to not ask again (*Mrs. Dutta Writes a Letter* 21-22).

She always wonders at the behaviour of the people and at the end of her life. She could not accept the change easily. She comes to the conclusion that widow-hood in India to be a better state than living in America in an alien land.

In "Cultural, Identity and Diaspora" the theorist Stuart Hall argued that cultural identity is not only a matter, a being but of 'becoming', belonging as much to the future as it does to the past. From Hall's perspectives identities undergo constant transformation, transcending time and space. This is very much reflected in the characters of Mira and Tarun in "*The Blooming season for the Cacti*"

The Setting of "*The Blooming season for the Cacti*" played an unbelievably symbolic purpose with Mira's past in Bombay and the riots which took place while her and her mother were living there. This memory made Mira scared for life. She saw terrible things taking place as her mother hid her in their water tank and never returned. It can easily be assumed that Bombay, or at least the memory influenced heavily on Mira's every action and decision. This kind of attachment to setting creates a realistic type of appeal that keeps readers hooked from beginning to end; the back story of this character is tantalizing and continuously evolving.

In the "*Blooming season for the Cacti*", Mira faces persistent challenges in America. The protagonist moves from India to America in an expectation that her life would get better with good career opportunities. However, she cannot secure an appropriate job. In this condition, she starts to work at an Indian restaurant. There she makes a boy friend. Her relationship with her friend leads her to a physical relationship which is against the Indian culture. But eventually, she starts to feel mortified of what she has done. With the guilt and hindrance of losing her job in America she reminisces her mother. She apprehends that nothing to compare between the homeland and the foreign land. The author portrays through this story that immigrants would never feel connected to the foreign except their expectation of pursuing their happiness there.

This story slices through an immigrant's life, the sentiments, that unites and also divides the Indians living abroad.

"*The Intelligence of Wild Things*" explains the phenomenon of how the shift of geography creates some irresolvable barriers. The story centers on a sister and a brother, born and brought up in Calcutta living in America. The author shares through the story about the changes brought by immigrant life in familial ties. The sister is on a short visit to persuade her brother to talk to their dying mother in India. But Tarun had not spoken to their mother after he came to USA. The sister enquires with her brother about the photograph of a girl near his bed. Tarun replies that she is his girlfriend and it shocks her. Her stay in America after her marriage had taught her that she cannot interfere in his life even though he is her brother.

"Tarun, whose photo is this?"

"My girlfriend's"

"Your girlfriend!...you never told me you had a girlfriend, especially a white one! What is ma going to say when she finds out!" (*The intelligence of Wild Things* 37)

Mira thinks about a letter received from her mother, before Tarun's arrival to Vermont. The letter described the fight between the mother and the son. The mother insisted him to go to USA fearing Naxal movements in Kolkatta. The son did not want to leave his mother as he was very much attached to her. She succeeded in the attempt but Tarun is gone forever. He did not communicate with his mother and once he arrived in USA. Mira says,

Everyone called Tarun a good boy..... He preferred being with mother and me. Even when he was a teenager, he'd come into the kitchen where we were fixing dinner and knead the dough for her, or help me slice the bitter gourd. If asked, he would give us an obedient description of his day (theorems in maths class, essay test in English, atoms and molecules in science) (*The intelligence of Wild Things* 39)

Divakaruni vividly explained how the geographical space influenced the individuals. Mira recollects when she was eight and her brother three, they were sent to their uncle's house after their father's death. They both became homesick, miserable and were, afraid of the spiders in that home. They did not fit in with their cousins. The story moves forward and backward throughout the narration she reminds nostalgic in her attitude to life.

In the title story, *The Unknown Errors of Our Lives* Ruchira is the female protagonist born and brought-up in America. She has a strong feeling towards her forefather's land and traditions. She was greatly inspired by her grandmother's stories.

Ruchira has the habit of writing all the errorful events happened in her life similarly she has also written all that has been bluntly explained by Biren, whom she is betrothed to.

The hard reality struck in her life when a woman named Arlene came at the doorstep claiming that she is carrying the baby boy of Biren in her womb. It was the same time Ruchira has fallen in love with Biren and ready to shift their things to the newly wed Condo.

JUST THREE DAYS left before her wedding, and Ruchira thinks..... It's her best one so far, and it's ready now, at least this phase of it. Just in time, because it's to be her surprise wedding gift to Biren..... she'll hang it opposite to the bed, so they can look at it after lovemaking or in the morning, waking each other up..... Then Biren's knocking, and she lifts the easel into the closet and rushed to the door and opens it. But it's not him..... It's a young woman- well, maybe not so young, once you take in the cracked lines at the corners of her eyes- very thin and very pregnant, with spiky blond hair and a pierced eyebrow, wearing a shapeless pink smock that looks borrowed and a studded black leather jacket that she can no longer button over her belly.....

She had realized, right away, that she shouldn't let her in. But she couldn't just shut the door in the face of a pregnant woman who looked like she was starving could she?..... Then she speaks, an unexpected dimple appears in her cheek, and Ruchira is shocked to discover she's beautiful. "My name's Arlene," She says. And after a while Arlene says, "It'll be born in a month of February". She narrows her eyes and stares as though Ruchira were a minor fact she's memorizing for a future test, one she'd rather not take. (*The Unknown Errors of Our Lives* 225-228)

In this situation she gets prompted of her grandmother, who used to pray to the Lord Shiva to forgive both the known and unknown errors of their lives.

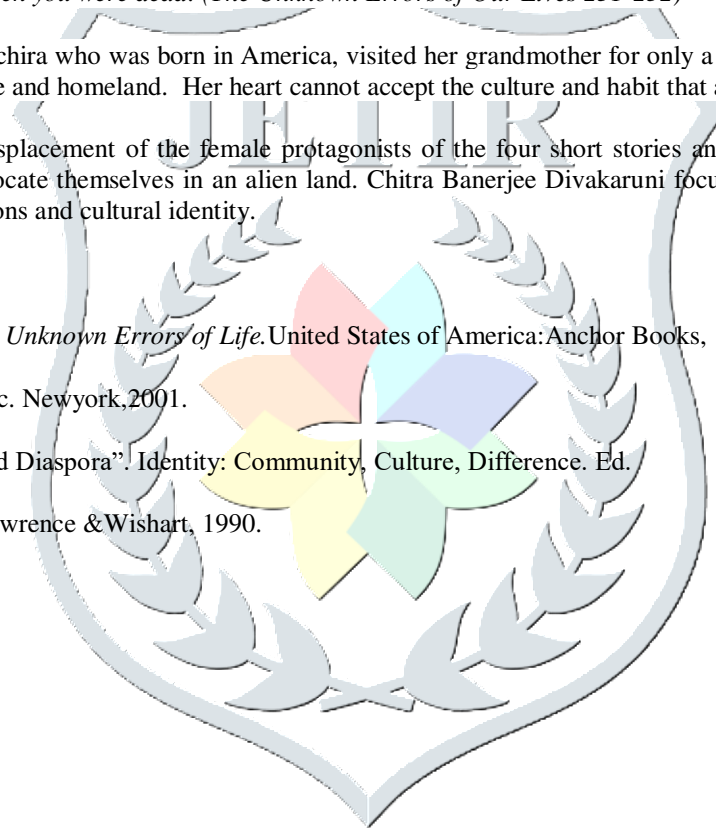
Forgive us, O lord Shiva, all our errors, both the known and unknown'.... Errors that look your life between their thumb and forefinger, Thakuma, and crumbled it like a muffin until you were alone, separated by oceans and deserts and a million Skyscrapes from the people you loved, and then you were dead. (The Unknown Errors of Our Lives 231-232)


These lines make it clear that Ruchira who was born in America, visited her grandmother for only a dozen times but has a heart which is associated with her own culture and homeland. Her heart cannot accept the culture and habit that affects her own moralities.

Thus this paper examines the displacement of the female protagonists of the four short stories and their sense of the past for their homeland and their struggle to locate themselves in an alien land. Chitra Banerjee Divakaruni focused on how the geographic space caused conflict between generations and cultural identity.


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விலங்கியல் நோக்கில் நற்றிணைக் குரங்கினம்

கட்டுரையாளர்

முனைவர் ச. உமா

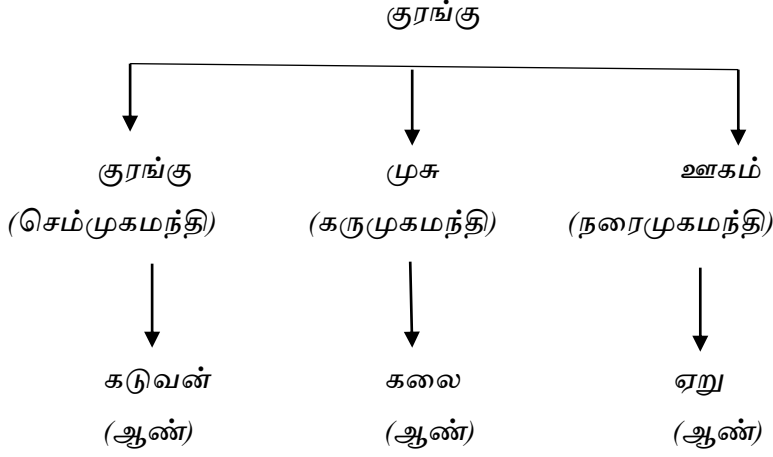
இணைப்பேராசிரியர், தமிழ்த்துறை

அன்னை ஹாஜிரா பெண்கள் கல்லூரி, மேலப்பாளையம், திருநெல்வேலி.

ஆய்வுச்சுருக்கம்

பழங்காலம் முதல் தற்காலம் வரை விலங்குகள் மனித வாழ்வோடு ஒன்றிக் காணப்படுகின்றன. இந்தியத் தொல் நாகரீகத்தின் வெளிப்பாடாகக் கருதப்படும் சிந்து சமவெளி அகழ்வாய்வில் விலங்கு உருவங்கள் மற்றும் ஒற்றைக் கொம்பன் போன்றன காணப்படுகின்றன. விலங்குகளின் பரிணாம வளர்ச்சியை வரையறுக்க விலங்கியலார் பல்வேறு நிலைகளில் முயன்று வருகின்றனர். எனினும், அது குறித்த தெளிவான முடிவுகள் எதுவும் எட்டப்படவில்லை. பல்லாயிரம் ஆண்டுகளுக்கு முற்பட்ட இலக்கியங்களான சங்க இலக்கியங்களில் தற்போதைய அறிவியல் துறைகள் பல விரவிக் கிடைப்பதை அறிய முடிகின்றது. தற்போது தனித்தனித் துறைகளாக வளர்ந்து நிற்கின்ற அறிவியல் துறைகள் பல. அவற்றுள் உயிரியல் என்னும் அறிவியல் துறையின் பிரிவுகளான தாவரவியல், விலங்கியல், பறவையியல் என்னும் வகைப்பாடுகளும் சங்க நூல்களில் காணக்கிடைக்கின்றன. விலங்கியலாளரின் வகைப்பாடுகளான ஊர்வன, பறப்பன, பாலூட்டிகள் என்னும் மூன்று பெரும் பிரிவுகளையும் மற்றும் நீர் வாழ்வன பற்றியும் சங்க இலக்கியங்களில் அறிந்து கொள்ள முடிகின்றன. சங்க இலக்கியங்களில் வேறெந்த மொழி இலக்கியங்களையும் விட அதிகமான எண்ணிக்கையில் விலங்கினங்கள் குறிப்பிடப்பட்டிருக்கின்றன. சங்க இலக்கியங்களில் நற்றிணை என்னும் அக இலக்கியத்தில் குறிப்பிடப்படுகின்ற பாலூட்டிகள் இனத்தைச் சார்ந்த குரங்குகள் பற்றிய செய்திகளை விலங்கியல் நோக்கில் ஆய்வு செய்வதாக இவ்வாய்வு அமைகின்றது. இவ்வாய்வு குரங்கு, செம்முக மந்தி, துய்த்தலை மந்தி, திரையணல் கொடுங்கவுள், முசு,

என்றெல்லாம் குரங்குக் குட்டிகள் பேசப்படுகின்றன.



குரங்கு 'மகாகூஸ்' (Macques) (அ) 'லாங்கர்ஸ்' (Langurs) குடும்பத்தைச் சார்ந்ததாகும். குரங்குகளின் ஆங்கிலப்பெயர் 'மங்கி' என்பதாகும். வகைகளுக்கு ஏற்றவாறு அவற்றின் பெயர்கள் அமைகின்றன. இவற்றுள் ஊகம் தவிர்த்து ஏனைய குரங்குகளை நற்றிணை குறிப்பிட்டுள்ளது தெரிகின்றது.

செம்முக மந்தி

விலங்கியல் பெயர் : 'மகாகா ராடிட்டா' (Macaca Radiata)

ஆங்கிலப்பெயர் : 'போனட் மங்கி' (Bonnet Monkey)

முகு

விலங்கியல் பெயர் : 'பிரஸ்பைடிஸ் என்டெலுஸ்' (Presbytis Entellus)

ஆங்கிலப்பெயர் : 'காமன் லாங்கர்' (Common Langur)

ஊகம்

விலங்கியல் பெயர் : 'டிரைசிபிதிகஸ்' (Trachypithecus Phayrei)

ஆங்கிலப்பெயர் : 'லயன் டெயில்டு மங்கி' (Lion Tailed Monkey)

முடிவுரை

நற்றிணையில் குரங்கினங்களைப் பற்றிய செய்திகள் பத்தொன்பது பாடல்களில் இடம்பெறுகின்றன. ஆண் குரங்கு கடுவன் என்ற பெயரிலும், பெண் குரங்கு மந்தி என்ற பெயரிலும் குறிப்பிடப்படுகின்றது. குரங்கு, முகு, ஊகம் என்பன செம்முக மந்தி, துய்த்தலை மந்தி, திரையணல் கொடுங்கவுள், முகு என்னும் வகைகள் நற்றிணையில் விளக்கப்பட்டுள்ளதையும் அவற்றிற்கான விலங்கியல் பெயர்களும் இவ்வாய்வின் முலம் எடுத்துரைக்கப்பட்டுள்ளன.

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பன்னாட்டுக்கருத்தரங்கம்

10 மார்ச் 2023

“பன்முக நோக்கில் நவீன இலக்கியங்கள்”

பதிப்பாசிரியர்கள்

முனைவர் இர.மணிமேகலை

முனைவர் ந.காயத்ரி

முனைவர் கோ.சுகன்யா

முனைவர் து.சவிதா

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தற்காலப் பெண் கவிஞர்கள் கவிதைகளில் பெண்களுக்கானத் தொன்மப் பயன்பாடுகள்

முனைவர் ச. உமா

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மேலப்பாளையம், திருநெல்வேலி

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ஆய்வுக்கருக்கம்

இலக்கியம் தொடங்கிய காலத்தில் இருந்து பெண்ணுரிமை பேசும் பாலும் நவீன இலக்கியத்திலேயே பெண்ணியம் முதன்மை பெற்றுள்ளது. தற்காலத்தில் பெண்ணியம் சார்ந்து கவிதை எழுதுபவர்கள் பெண்களின் நிலைகளைத் தங்களின் உணர்வுகளோடு பதிவு செய்கிறார்கள். புதுக்கவிதைகளில் பயன்படுத்தப்படும் உத்திகளில் ஒன்றாகத் தொன்மங்கள் அமைந்துள்ளன. தற்காலப் பெண் கவிஞர்கள் கவிதைகளில் பெண்களுக்கானத் தொன்மப் பயன்பாடுகள் என்னும் இக்கட்டுரையானது ஆய்வுக்கருக்கம், முன்னுரை, தொன்மம்

விளக்கம், சக்தி சிவன் தொன்மம், ஆண்டாள் மாதவன் தொன்மங்கள், ஆண்டாள் மாதவன் - நந்தகோபன் தொன்மங்கள், மார்க்கண்டேய தொன்மம், ஆண்டாள் - ஓளவை தொன்மங்கள், சாவித்திரி - அனார்கலி தொன்மங்கள், சீதை தொன்மம், சீதை - இராவணன் தொன்மங்கள், சீதை - இராமன் தொன்மங்கள், மீனாட்சி தொன்மம், முடிவுரை, மேற்கோள்கள், துணை நின்ற நூல்களும். இணையத்தளங்களும் என்னும் தலைப்புகளில் அமைகின்றது.

திறவுச் சொற்கள் : பெண்ணியம், பாலினம், கவிதை, பெண் கவிதை, பெண்ணியக் கோட்பாடு, தொன்மம்,

முன்னுரை

இக்காலக் கவிஞர்களுள் பெண் கவிஞர்களும் குறிப்பிடத்தக்க இடத்தைப் பெற்றுள்ளனர். இவர்கள் தமது கவிதைகளின் அழகை உணர்த்தவும், சொற்சிக்கனத்திற்கும், கருத்துக்களைக் குறிப்பாகப் புலப்படுத்தவும் உவமை, உருவகம், பாடிமம், குறியீடு, தொன்மம் (அலவா) ஆகிய உத்திகளைப் பயன்படுத்தியுள்ளனர். இவற்றுள் தொன்மம் பழமை புராணம் எனவும் வழங்கப்படும். இயற்கைக் குறியீடுகளுக்கான அடுத்த நிலையில் கவிதைகளுள் மிகுதியும் இடம்பெறுவது தொன்மமாகும்.

தொன்மம் - விளக்கம்

பழமையான மொழி, பண்பட்ட மொழி, பைந்தமிழ் மொழி, தேனினும் இனிய தீந்தமிழ் மொழியென்றால் தமிழ் மொழிதான் என்று கூறுவது மிகையாகாது. தமிழ் எளிமையான, இனிமையான மொழியாக திகழ்கிறது. தமிழ் மொழியானது இலக்கிய மரபினைக் பிரதிபலிக்கக்கூடிய காலக் கண்ணாடியாகும். தமிழ் இலக்கியங்கள் அன்றைய மக்களின் நிலவியல் சார்ந்த சூழலைக் கையகப்படுத்தி இயற்கையைப் பேணி பாதுகாத்து அதனோடு இயைந்த வாழ்வியலைக் கற்றுக்கொடுத்தது. அதுமட்டுமின்றி, இம்மொழி இலங்கை, சிங்கப்பூர் போன்ற நாடுகளில் ஆட்சிமொழியாகவும், உலகமொழியாகவும் திகழ்கின்றது. இன்றையக் காலச்சூழலில் பல்வேறு நாடுகள் தமிழ்மொழியைச் சிறார்களுக்குக் கற்றுக்கொடுக்கின்றனர். ஆய்வாளர்கள் தமிழ் இலக்கியத்தைப் பல்வேறு தளங்களில், பலகோணங்களில் ஆய்வுக்குட்படுத்துகின்றனர்.

இவ்வுலகவாழ்வுக்கே இலக்கிய - இலக்கணம் வகுத்த வண்டமிழ் மொழியாகத் தமிழ்மொழி திகழ்கின்றது. இலக்கண அமைப்பில் புதுமை கொண்ட பெருமை தமிழுக்கே உரியது. இவ்விலக்கணம் தொல்காப்பியரின் எழுத்து, சொல், பொருள் ஆகிய மூன்று இயலின் மூலமாகத் தமிழ் எழுத்துக்களின் முக்கியத்துவத்தையும், போற்றுதலுக்குரிய வாழ்வின் ஒழுக்கத்தையும் எடுத்துரைக்கும் நோக்கோடு உருவாக்கப்பட்டது. தமிழ் இலக்கியங்களில் எட்டுத்தொகை, பத்துப்பாட்டு, பதினெண் கீழ்க்கணக்கு நூல்களும் காப்பியங்களும் தமிழின் பெருமையைப் பறைசாற்றுகின்றன. அவ்வாறே, பன்னிருதிருமுறைகள், நாலாயிரத் திவ்யப்பிரபந்தங்களும் பக்திமணம் பரப்புகின்றன. நல்வழி, மூதுரை, உலகநீதி, கொன்றைவேந்தன் போன்ற நீதிநெறி நூல்களும் மக்களுக்கு அறவழிகாட்டிகளாய்த் திகழ்கின்றன.

இவ்வாய்விதழ் சங்ககாலம் முதல் சமகாலம் வரை மக்களின் பழக்கவழக்கங்களையும், பண்பாடுகளையும், நம்பிக்கைகளையும், கலைச் செயற்பாடுகளையும் இலக்கியங்கள், கள ஆய்வுவாயிலாக ஆராயும் விதமாக படைக்கப்பட இருக்கிறது. மேலும், சமூகங்களின் உள்ளத்து உணர்வுகளையும், கற்பனை வளத்தையும், படைப்பாற்றல்களையும், திறன்களையும் ஆராய்ந்து இவ்விதமுக்குச் சமர்ப்பிக்கலாம். காலனிய நீக்கம், அறிவின் அதிகாரவிமர்சனம், படைப்பிலக்கியமையம், ஆற்றுகைமையம், விளிம்புநிலைப் பார்வை, பன்மைத்துவ அணுகுமுறை, பெண்ணியல் சிந்தனை, சூழலியல் நட்பு ஆகிய எண்ணக்கருக்களையும், புதியகோட்பாட்டு அணுகுமுறைகளையும் பகுப்பாய்வு செய்து இவ்வாய்விதழில் சமர்ப்பிக்கலாம்.

ஆய்வாளர்களது ஆய்வுக்கட்டுரைகள் பன்னாட்டளவில் மதிப்பீடுச் செய்யப்படும். மதிப்பீடுச் செய்யப்பட ஆய்வுக்கட்டுரைகளை ஆசிரியர்குழுவின் மேற்பார்வையில் ஆய்வாளர்களின் கவனத்திற்குக் கொண்டுச் செல்லப்பட்டு, பின்னர் அதன் திருத்தங்களைச் சரிசெய்து ஆய்வுநூலாக வெளியிடப்படுகின்றது.

இது இலங்கையில் இருந்து வருடம் இரு இதழ்களாக (ஆனி, மார்கழி) வெளியிடப்படும் மீளாய்வுச் (Refereed) சஞ்சிகையாகும். இது துறைசார் உள்நாட்டு, வெளிநாட்டுப் புலமையாளர்களால் மீளாய்வுச் செய்யப்பட்டு வெளியிடப்படுகின்றது. ISSN: 2950-6611.