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Keywords



Z_k -Magic Labeling of Path Union of Graphs

P. JEYANTHI¹ K. JEYA DAISY² AND ANDREA SEMANIČOVÁ-FEŇOVČÍKOVÁ³

¹Research Centre, Department of Mathematics,
Govindammal Aditanar College for Women,
Tiruchendur 628215, Tamilnadu, India
jeyajeyanthi@rediffmail.com

²Department of Mathematics,
Holy Cross College, Nagercoil, Tamilnadu, India
jeyadaisy@yahoo.com

³Department of Applied Mathematics and Informatics,
Technical University, Košice, Slovak Republic
andrea.fenovcikova@tuke.sk

ABSTRACT

For any non-trivial Abelian group A under addition a graph G is said to be A -magic if there exists a labeling $f : E(G) \rightarrow A - \{0\}$ such that, the vertex labeling f^+ defined as $f^+(v) = \sum f(uv)$ taken over all edges uv incident at v is a constant. An A -magic graph G is said to be Z_k -magic graph if the group A is Z_k , the group of integers modulo k and these graphs are referred as k -magic graphs. In this paper we prove that the graphs such as path union of cycle, generalized Petersen graph, shell, wheel, closed helm, double wheel, flower, cylinder, total graph of a path, lotus inside a circle and n -pan graph are Z_k -magic graphs.



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Relatively prime dominating polynomial in graphs

C. Jayasekaran^{1*} and A. Jancy Vini²

Abstract

We introduce the concept of relatively prime domination polynomial of a graph G . The relatively prime domination polynomial of a graph G of order n is the polynomial $D_{rpd}(G, x) = \sum_{k=\gamma_{rpd}(G)}^n d_{rpd}(G, k)x^k$ where $d_{rpd}(G, k)$ is the number of relatively prime dominating sets of G of size k , and $\gamma_{rpd}(G)$ is the relatively prime domination number of G . We compute this polynomial for path P_n , complete bipartite graph $K_{m,n}$, star $K_{1,n}$, bistar $B_{m,n}$, spider graph $K_{1,n,n}$ and Helm graph H_n .

Keywords

Dominating polynomial, relatively prime dominating polynomial, relatively prime dominating polynomial roots.

AMS Subject Classification

05C69, 11B83.

¹ Department of Mathematics, **Pioneer Kumaraswamy College, Nagercoil-629003, Tamil Nadu, India

² Department of Mathematics, **Holy Cross College (Autonomous), Nagercoil-629004, Tamil Nadu, India.

*Corresponding author: ¹ jaya.pkc@yahoo.com; ² jancyvini@gmail.com

**Affiliated to Manonmaniam Sundaranar University, Abishekapatti, Tirunelveli, Tamil Nadu, India.

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1. Introduction

By a graph $G = (V, E)$ we mean a finite undirected graph without loops and multiple edges. The order and size of G are denoted by n and m respectively. For graph theoretical terms, we refer to Harary [5] and for terms related to domination we refer to Haynes [6]. A subset S of V is said to be a dominating set in G if every vertex in $V - S$ is adjacent to at least one vertex in S . The domination number $\gamma(G)$ is the minimum cardinality of a dominating set in G .

Berge and Ore [2, 13] formulated the concept of domination in graphs. It was further extended to define many other domination related parameters in graphs. Let G be a non-trivial graph. A set $S \subseteq V$ is said to be a relatively prime dominating set if it is a dominating set and for every pair of vertices u and v in S such that $(d(u), d(v)) = 1$. The minimum cardinality of a relatively prime dominating set is called the relatively prime domination number and it is denoted by

$\gamma_{rpd}(G)$ [8]. Switching in graphs was introduced by Lint and Seidel [12]. For a finite undirected graph $G(V, E)$ and a subset $\sigma \subseteq V$, the switching of G by σ is defined as the graph $G^\sigma(V, E')$ which is obtained from G by removing all edges between σ and its complement $V - \sigma$ and adding as edges all non edges between σ and $V - \sigma$. For $\sigma = \{v\}$, we write G^v instead of $G^{\{v\}}$ and the corresponding switching is called as vertex switching [7]. Bistar is the graph obtained by joining the center of two stars $K_{1,m}$ and $K_{1,n}$ with an edge and it is denoted by $B_{m,n}$ [14]. A spider is a tree with one vertex of degree at least 3, called the center, and all others with degree at most 2 and it is denoted by $K_{1,n,n}$ [4]. A wounded spider is the graph formed by sub dividing at most $n - 1$ of the edges of a star $K_{1,n}$ for $n \geq 0$ [11]. For more details about the basic definitions which is not appear here, we refer to Harrary [5].

Graph polynomials are powerful and well-developed tools to express graph parameters. Saeid Alikhani and Peng, Y. H. [1], have introduced the Domination polynomial of a graph. The Domination polynomial of a graph G of order n is the polynomial $D(G, x) = \sum_{i=\gamma(G)}^n d(G, i)x^i$, where $d(G, i)$ is the number of dominating sets of G of size i , and $\gamma(G)$ is the domination number of G . This motivated us to introduce the relatively prime domination polynomial of a graph. In this paper, we define the relatively prime domination polynomial of a graph G and find the relatively prime domination polynomial of some standard graphs.





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Some Results on Z_k -Magic Labeling

P. Jeyanthi and K. Jeya Daisy

Communicated by Ayman Badawi

MSC 2010 Classifications: 05C78.

Keywords and phrases: A -magic labeling, Z_k -magic labeling, k -magic graph, shell, generalised jahangir, double wheel, splitting graph.

Abstract For any non-trivial abelian group A under addition a graph G is said to be A -magic if there exists a labeling $f : E(G) \rightarrow A - \{0\}$ such that, the vertex labeling f^+ defined as $f^+(v) = \sum f(uv)$ taken over all edges uv incident at v is a constant. An A -magic graph G is said to be Z_k -magic graph if the group A is Z_k the group of integers modulo k and these graphs are referred as k -magic graphs. In this paper we prove that shell graph, generalised jahangir graph, $(P_n + P_1) \times P_2$ graph, double wheel graph, mongolian tent graph, flower snark, slanting ladder, double step grid graph, double arrow graph and semi jahangir graph are k -magic and also prove that if the graph G is k -magic with magic constant 0 then the splitting graph of G is k -magic.

1 Introduction

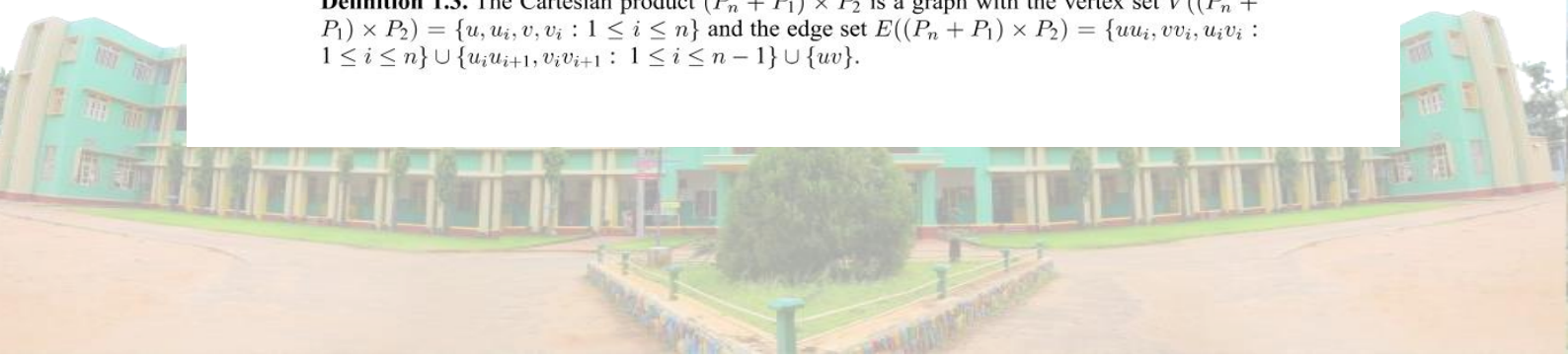
Graph labeling is currently an emerging area in the research of graph theory. A graph labeling is an assignment of integers to vertices or edges or both subject to certain conditions. A detailed survey was done by Gallian in [6]. If the labels of edges are distinct positive integers and for each vertex v the sum of the labels of all edges incident with v is the same for every vertex v in the given graph then the labeling is called a magic labeling. Sedláček [8] introduced the concept of A -magic graphs. A graph with real-valued edge labeling such that distinct edges have distinct non-negative labels and the sum of the labels of the edges incident to a particular vertex is same for all vertices. Low and Lee [7] examined the A -magic property of the resulting graph obtained from the product of two A -magic graphs. Shiu, Lam and Sun [9] proved that the product and composition of A -magic graphs were also A -magic.

For any non-trivial Abelian group A under addition a graph G is said to be A -magic if there exists a labeling $f : E(G) \rightarrow A - \{0\}$ such that, the vertex labeling f^+ defined as $f^+(v) = \sum f(uv)$ taken over all edges uv incident at v is a constant. An A -magic graph G is said to be Z_k -magic graph if the group A is Z_k , the group of integers modulo k . These Z_k -magic graphs are referred to as k -magic graphs. Shiu and Low [10] determined all positive integers k for which fans and wheels have a Z_k -magic labeling with a magic constant 0. Motivated by the concept of A -magic graph in [8] and the results in [7], [9] and [10] Jeyanthi and Jeya Daisy [1]-[5] proved that the open star of graphs, subdivision graphs, cycle of graphs and some standard graphs admit Z_k -magic labeling. In this paper we prove that shell graph, generalised jahangir graph, $(P_n + P_1) \times P_2$ graph, double wheel graph, mongolian tent graph, flower snark, slanting ladder, double step grid graph, double arrow graph and semi jahangir graph are k -magic and also prove that if the graph G is k -magic with magic constant 0 then the splitting graph of G is k -magic. We use the following definitions in the subsequent section.

Definition 1.1. A shell S_n is the graph obtained by taking $n - 3$ concurrent chords in a cycle C_n . The vertex at which all the chords are concurrent is called the apex.

Definition 1.2. A generalised Jahangir graph $J_{k,s}$ is a graph on $ks + 1$ vertices consisting of a cycle C_{ks} and one additional vertex that is adjacent to k vertices of C_{ks} at distance s to each other on C_{ks} .

Definition 1.3. The Cartesian product $(P_n + P_1) \times P_2$ is a graph with the vertex set $V((P_n + P_1) \times P_2) = \{u, u_i, v, v_i : 1 \leq i \leq n\}$ and the edge set $E((P_n + P_1) \times P_2) = \{uu_i, vv_i, u_i v_i : 1 \leq i \leq n\} \cup \{u_i u_{i+1}, v_i v_{i+1} : 1 \leq i \leq n-1\} \cup \{uv\}$.





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Materials Today: Proceedings

Volume 8, Part 1, 2019, Pages 169-175

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P.Aji Udhaya^a, T.C. Bessy^b, M. Meena^c

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Abstract

Due to finite size effects and high surface to volume ratio, magnetic nanoparticles exhibit different properties than those found in the corresponding bulk material. There is a great need for synthesising nanoparticles using non-toxic, cheap and eco-friendly precursors. Plant extracts and animal by products can be used to synthesize nanoparticles as they are a source of variety of metabolites, which can act as fuels, capping agents, reducing agents and stabilizing or chelating agents for capturing metal ions. Substituting a transition metal into a spinel ferrite has been observed to enhance optical, electrical, magnetic and antibacterial activities of pure ferrites. In this present work, NiFe₂O₄ and MgFe₂O₄ nanoparticles are synthesized through self-combustion method using egg white. The structural, morphological and elemental composition and magnetic properties of the samples were analysed using PXRD, FTIR, SEM and EDX technique. The bactericidal effect of nickel and magnesium substituted ferrite particles were qualitatively measured by performing agar diffusion test and liquid broth methods. PXRD pattern confirm the single phase cubic spinel structure of the synthesized particles with size varying from 21 to 27 nm. The FTIR spectra confirm the spinel structure and the functional groups present. From the FESEM analysis it is found that there is considerable degree of agglomeration in the samples. The presence of Ni, Mg, Fe and O without precipitating cations is confirmed from EDX data. The presence of magnesium controls the growth of *Paeruginosa* while presence of nickel controls the growth of *B. subtilis*.

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Quality Analysis and Quantum Classical Analysis of Acetaminophen



Naidu Dhanpal Jayram, T. Santosh, S. Jeyavijayan, M. S. Revathy, **S. Sonia**

Abstract: In recent year's Raman and IR spectroscopy has been widely used by pharmaceutical industry as a analytical tool for quality control. The present work Acetaminophen (common name paracetamol) is been characterized using Raman, FTIR, and UV-visible techniques. 5 different brands of tablets (name changed as A, B, C, D, and E) purchased from Medical shop for analysis and comparative studies. Spectrum recorded using Raman shows major peak in between 400-1600cm⁻¹ wavelength respectively; the Y-axis intensity for them varies along shift in x-axis but majorly all remains same except in Tablet C. FTIR spectroscopy doesn't show much variation in the reflectance spectra but slight variation in y-axis intensity is noted. UV-visible remains same for all the tablets. For comparison the optimized geometries, harmonic vibrational wave numbers and intensities of vibrational bands of Acetaminophen were determined using DFT-B3LYP with 6-311++G(d,p) level calculations. Weight variation and Tablet disintegration studies were also done to confirm weight in gms of individual tablet. The disintegration time shows breaking of tablets particles into smaller ones in particular time. The analysis of paracetamol quantity and its interdependence on the optical characterization such as Raman, FTIR, were interpreted through means of band width; functional group and bond length. UV-visible spectroscopy helps to determine the volumetric concentration dependence on functional group. The theoretical calculations were matched with experimental results.

Keywords: Acetaminophen; FTIR; FT-Raman; DFT, weight variation and Tablet disintegration

I. INTRODUCTION

Para-Acetaminophen commonly known as Paracetamol is an active form of Phenacetin[1-4]. This Para-Acetaminophen is used widely as an antipyretic and analgesic drug. Acetaminophen is 4 hydroxy acetanilide chemically consists of hydroxyl, carboxyl and nitrogen shown in Fig.1. Acetaminophen (Paracetamol) is generally available as a tablet for adults and syrup based fluid for children. It comes

under non-steroidal and anti-inflammatory drug by many sources. Acetaminophen shows some anti-inflammatory effect in comparison with other painkiller drugs. Acetaminophen is available in different dosages as Paracetamol tablets, capsules, syrup based and also suspension solution [8-10]. It is low-cost antipyretic and analgesic drug available in world market. It is readily available in all local stores as a handy drug to reduce fever. There are numerous manufacturer of acetaminophen drug. The preparation of drug varies according to the methods and employs. Paracetamol is mainly used to reduce fever and body pain for all ages [5-7]. It is used with other combinations to counteract cold and other flu. Usage of this drug provides nearly no side effects. Overdose of the drug may cause serious damage to the liver [11-13]. The lowest dose of the Paracetamol for adult is 7.5g/kg in adults and 150mg in children. Paracetamol overdose causes Hepatotoxicity, which leads to serious liver complications. It is the common poisoning worldwide. More amount of Paracetamol toxicity leads to hepatic encephalopathy. Increased amount of dosage can cause stomach bleeding. (Vidhya and bhai 2006). Other than liver, calcified kidney is the second victim of Paracetamol toxicity. (Beasley et al., 2008) [14-16]. Prolong usage of this acetaminophen will thin the blood and the blood would lose the ability to clot. To avoid all the side effects caused by Paracetamol we have to analyze the quality of the available drugs in the market. There are many certified manufacturers of these drugs are found in India. In the present work, five popular brands of acetaminophen (named given as A, B, C, D, E) were recorded using Raman, FTIR, UV spectra respectively. The main purpose of the study is to find out the quality of the Paracetamol tablets by optical characterizations and quantity analysis through weight variation, dissolution test, and disintegration time.

II. EXPERIMENTAL

A. Materials and Methods

The comparison study with different brands of Paracetamol 500mg tablets showed notable results. Five different brands of Paracetamol tablets coded as A B C D E are tested using weight uniformity, disintegration time and dissolution test. The necessary data for a tablet sample are noted and the chemical composition mentioned in the Paracetamol tablet strip is noted. Only acetaminophen content in all of Paracetamol tablet brand strip is confirmed and noted. The expiry date is noted and taken into consideration prior to two years from the date of manufacture.

Manuscript published on 30 December 2019.

* Correspondence Author (s)

Naidu Dhanpal Jayram*, Physics, Kalasalingam Academy of Research and Education, Krishnankoil, Virudhunagar, India.

Email: dhanpal.dj@gmail.com

T. Santosh, Physics, Kalasalingam Academy of Research and Education, Krishnankoil, Virudhunagar, India.

S. Jeyavijayan, Physics, Kalasalingam Academy of Research and Education, Krishnankoil, Virudhunagar, India.

Email: sjejavijayan@gmail.com

M. S. Revathy, Physics, Kalasalingam Academy of Research and Education, Krishnankoil, Virudhunagar, India.

Email: revz.vijay@gmail.com

S. Sonia, Physics, Holy Cross College(Autonomous), Nagercoil, India.

Email: sonianst10@gmail.com

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Volume 228, 5 March 2020, 117802

Spectroscopic investigation of supramolecular organometallic compound L-threonine cadmium acetate monohydrate

Abila Jeba Queen M^{a, b}, Bright K.C.^c, Mary Delphine S., Aji Udhaya P.^d

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- A new $[\text{Cd}(\text{C}_2\text{H}_3\text{O}_2)(\text{C}_4\text{H}_8\text{NO}_3)(\text{H}_2\text{O})]\text{H}_2\text{O}$ crystal prepared by the chemical reaction between L-Threonine and Cadmium acetate.
- The asymmetric structural unit tends to increase the ionic polarization, which results better dielectric material.
- Low UV absorption ability might be used as a corrosion resistant semiconductor material for optical device fabrication system.

Abstract

Single crystal of L-Threonine cadmium acetate monohydrate, a supramolecular compounds crystallized by evaporation technique. The coordination network exhibit interesting structural property and have been investigated by Powder and single crystal X-ray diffraction. The functional group was identified using FTIR analysis. Dielectric property in a metal organic frame network plays an important role in the use of solid state as bioelectrical materials for various tissue engineering applications due to its relative permittivity. The UVVis studies suggested that UV absorption ability might be used as a corrosion resistant semiconductor material for optical device fabrication system. The non linear optical efficiency predicts that the material possesses good absorption coefficient.

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Materials Today: Proceedings

Volume 9, Part 3, 2019, Pages 528-534

Albumen Assisted Green Synthesis of NiFe₂O₄ Nanoparticles and Their Physico-Chemical Properties

P. Aji Udhaya^a✉, M. Meena^b

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Abstract

Spinel ferrites with general formula AB₂O₄ possess fascinating magnetic and electrical properties due to their thermal and chemical firmness. Nickel ferrite (NiFe₂O₄) is one of the most vital spinel ferrite having inverse spinel structure showing ferrimagnetism that originates from magnetic moment of anti-parallel spins linking the metal ions (Ni²⁺ and Fe³⁺). Here a simple technique of self-combustion with aid of albumen is made to synthesize nano crystalline Nickel ferrite (NiFe₂O₄) particles. The egg white (albumen) used in the synthesis process plays the role of fuel in the combustion process. The powder X-ray diffraction (PXRD) and Fourier Transform Infrared Spectroscopy (FTIR) results indicated that the synthesized nanoparticles are of single phase and show evidence of spinel structure. The Photoluminescence studies showed a doublet peak at 360-380nm. Also the functional groups present in the synthesized nanoparticles was found using FTIR. EDX results give account of the percentage composition of the elements Fe, Ni and O present in the synthesized sample. The Field Emission Scanning Microscope (FESEM) reveals the agglomerated nature of ferrite nanoparticles. Magnetic moment and retentivity of the as synthesized nickel ferrite (NiFe₂O₄) nanoparticles were obtained using Vibrating Sample Magnetometer (VSM). Dielectric properties of the as prepared samples were measured by two-probe method for various frequencies ranging from 100Hz-1MHz

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Materials Today: Proceedings

Volume 9, Part 3, 2019, Pages 627-632


Annona Muricata Inspired Synthesis of CeO₂ Nanoparticles and their Antimicrobial Activity

S. Sebastiammal^a, M. Mariappan^b, K. Neyvasagam^b, A. Lesly Fathima^a  

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Abstract

CeO₂ nanoparticles (NPs) have shown promising results as therapeutic agents in biology and medical sciences. In this study, CeO₂-NPs have been synthesized through green synthetic approach by applying natural matrices (fruit of *Annona muricata*) as stabilizing agents in order to prepare biocompatible CeO₂-NPs, thereby solving the challenges regarding safety, and providing the appropriate properties for their effective use in biomedical field. The synthesized CeO₂ nanoparticles are characterized by XRD, FTIR, UV-DRS, FESEM, EDAX, PL and antimicrobial analysis. UV-DRS analysis shows that formation of CeO₂ nanoparticles with maximum absorption at 318 nm. The antibacterial activities of synthesized CeO₂ NPs were carried out against the human pathogenic microorganism by agar-well diffusion method.

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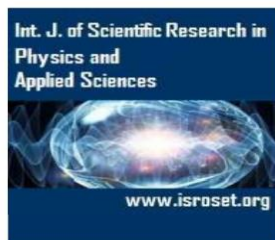


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Green synthesis of $MgFe_2O_4$ nanoparticles using Albumen as Fuel and their Physico-Chemical Properties

P. Aji Udhaya^{1,2*}, M.Meena², M. Abila Jeba Queen¹

^{1,2}Department of Physics, S.T. Hindu College, Nagercoil, Tirunelveli-627012, India
(Affiliated to Manonmaniam Sundaranar University, Abizhekapatti, India)

*Corresponding Author: ajiudhaya@gmail.com, (Reg. No. 18123152132038), Tel.: 8300019316.

Available online at: www.isroset.org

Received: 12/Apr/2019, Accepted: 20/Apr/2019, Online: 30/Apr/2019

Abstract— This research article reports the green synthesis of magnesium ferrite nanoparticle via auto-combustion using albumen as fuel. The synthesized nanoparticles are confirmed to process single phase and spinel structure with the help of powder X - ray diffraction (PXRD) and Fourier Transform Infrared Spectroscopy (FTIR). Which also determines the functional groups present in the nanoparticles. EDAX results provide the percentage composition of the elements in the synthesized sample. The Field Emission Scanning Microscope (FESEM) reveals the agglomerated nature of ferrite nanoparticles. Magnetic moment and retentivity were obtained using Vibrating Sample Magnetometer (VSM). Dielectric properties of the as prepared samples were measured by two-probe method for various frequencies ranging from 100Hz-1MHz.

Keywords— ferrites; albumen; PXRD; FTIR; FESEM; VSM; dielectric; retentivity; coercivity.

I. INTRODUCTION

Magnetic nanomaterials have been investigated intensively in recent years as they possess unique magnetic, electrical and optical properties [1]. Spinel ferrite nanoparticles are significant among the magnetic nanoparticles due to their thermal and chemical firmness in addition to the above characteristics. A typical spinel ferrite is formulized as MFe_2O_4 where M is a metal or a group of metallic elements with two dissimilar valences. The M^{2+} and Fe^{3+} cations will be distributed into tetrahedral and octahedral crystal sites of the spinel structure [2, 3]. In this current work egg white (albumen) has been used along with nitrates of iron and magnesium to produce $MgFe_2O_4$.

This method has been chosen after an in-depth study of solid state reactions. Nanoparticles can be synthesized by physical, chemical, mechanical and thermal methods using techniques like co-precipitation, sol-gel, combustion, ball milling etc. Synthesis of nanomaterials via green synthesis is superior to various other techniques as it is clean, eco-friendly with low reaction temperature and free from undesirable harmful by-products. Green synthesis of metal nanoparticles using plant extracts, animal byproducts and organisms such as bacteria and fungi have been rigorously adopted [4]. The egg white enriched with albumen was first time reported by Santi Maensuri et al for preparing transition metal substituted ferrites [5]. This technique is adapted in the present work to synthesize magnesium ferrite nanoparticles. The magnetic, electrical, optical, morphological and other properties of

nanoparticles have been analyzed using different tools such as X - ray diffractometer, scanning electron microscope, Vibrating sample magnetometer, Fourier transfer Infrared spectroscopy etc.

Section I gives the introduction to ferrites and their methods of synthesis. Section II is a detailed account of the experimental procedure carried out for the synthesis of $MgFe_2O_4$ and the characterization techniques adopted. Section III presents and analyses based on the obtained results along with interpretations of suitable images and graphs. Section IV gives the conclusion of the research work with future directions.

II. EXPERIMENTAL PROCEDURE

Synthesis

Magnesium ferrite magnetic nanoparticles were prepared using ferric nitrate nonahydrate and magnesium nitrate hexahydrate of high chemical purity along with freshly prepared egg white. Egg white rich in albumen protein are recognized for their foaming and emulsifying features and it is easily soluble in water which makes it combine with metal ions easily. Egg white also serves as binder cum gel for shaping materials [6]. Egg White and double distilled water were mixed in 3:1 ratio and stirred vigorously at room temperature until a homogeneous solution was formed. $Mg(NO_3)_2 \cdot 6H_2O$ and $Fe(NO_3)_3 \cdot 9H_2O$ were mixed in 1:2 mole ratio of Magnesium and Iron and slowly added to the homogenous egg white solution, with continuous stirring at room temperature for nearly four hours. The mixed solution

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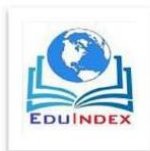
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Green Synthesis of Zinc Oxide Nanoparticles From
Mangifera Indica Seed Extract and Their Anticancer Activity against Skmel-
28 Cell Line

B.T.Delma¹, Dr.M.Anitha Malbi²

¹Research scholar (Reg.No:18123042032016), Department of Chemistry, Holy Cross College (Autonomous), Nagercoil, Affiliated to Manonmanium Sundaranar University, Tirunelveli.

²Assistant Professor, Department of Chemistry, Holy Cross College, Nagercoil.

Email: delma.chem5@gmail.com, anithamalbi@holycrossngl.edu.in

Abstract

This study describes the synthesis of zinc oxide nanoparticles by using Mangifera indicaseed extract as a reducing and capping agent. The synthesized nanoparticles were confirmed by UV-Vis spectroscopy and the average grain size of the nanoparticle is 34nm found by using XRD. FT-IR showed the presence of organic molecules capped in synthesized nanoparticles. The morphology of the nanoparticles was analyzed using SEM and the presence of zinc oxide nanoparticles was confirmed through elemental analysis. The synthesized ZnO nanoparticles have good anticancer activity against the SKMEL-28 cell line and showed IC₅₀ at 44.309. Then these nanoparticles were analyzed for apoptotic activity by acridine orange/ethidium bromide (AO/EB) double staining method showed chromatin condensation.

Keywords: Mangifera indica seed extract, Zinc oxide nanoparticles, Anti-cancer activity, Green synthesis

INTRODUCTION

Zinc oxide nanoparticles (ZnO NPs) have large bandwidth and high exciton binding energy and it showed good antibacterial, antifungal, anti-diabetic, anti-inflammatory, wound healing, antioxidant and optic properties. So it has been used as nano-optical and nano-electrical devices, in food packaging and medicine as antimicrobial and antitumor agents in industries [1]. Instead of toxic chemicals plants, fungus, bacteria, and algae have been used as reducing and stabilizing agents [2]. Compare to microorganism the plants are easily available and more cost-effective [3]. Several plant extracts have been used for the preparation of zinc oxide nanoparticles [4-9] and the zinc oxide nanoparticles showed good anti-microbial activity against bacteria, fungi and also cytotoxicity against various cell lines. The chemical constituents proteins, amino acids, enzymes, vitamins, alkaloids, phenolics, saponins, tannins, and terpenoids present in plant extract can act as reducing and capping agent. ZnO nanoparticles have low toxicity. So it is listed



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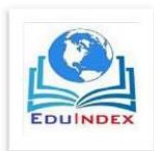
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on 21th December 2019 at St. Jerome's College, Anandhanadarkudy,
Nagercoil, Tamilnadu, India



Sustainable Manufacturing Process in Crepe Rubber

LUCKY CHANDRA PAUL

Reg: No: 18113042032014

Research Scholar

Holy Cross College, Nagercoil.

Affiliated to M.S. University, Tirunelveli

Dr.M.Anitha Malbi

Assistant Professor

Holy Cross College, Nagercoil.

ABSTRACT

Hevea Brasiliensis is a tree which discharge white colored latex that is utilized to produce natural rubber. Among the different types of Natural Rubber (NR), crepe rubber holds a significant position, as it is used to produce pharmaceutical and surgical rubber products, and also articles that are in contact with food materials. At present, the crepe rubber manufacturing has been challenged by low productivity, rising cost of production, and environmental issues. Therefore, this study was aimed to assess the feasibility in the adoption of sustainable manufacturing practices in the crepe rubber production. They are used for the production of huge end products like tyres, condoms, surgical gloves, balloons, adhesive, rubber band, carpet backing etc. It is produced by applying few steps named as latex collection by tapping process, preservation, coagulation, sheet formation and smoke drying process. Thus this study explains the formation of various types of crepe rubber.

Keywords: Natural Rubber production, Rubber products, Crepe Rubber

INTRODUCTION

Crepe rubber is coagulated latex that is rolled out in crinkled sheets and commonly used to make soles for shoes and boots but also a raw material for further processed rubber products. Crepe rubber is processed from fresh latex coagulum or cutting of Ribbed Smoked Sheets (RSS). These materials are passed through a set of crepe making machines, to get crinkly, lace- like rubber. This when dried is called Crepe rubber. Processing into crepe rubber was one of the method to upgrade low quality field coagulum materials such as earth scrap, shell scrap and tree lace. Materials selected from different types of field coagulum are blended in appropriate proportion to make crepe rubber of desired quality thorough soaking, agitation,



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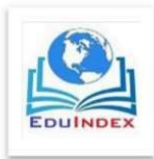
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Green Synthesis of Manganese Oxide Nanoparticles and Characterization USING UV- Vis and Ftir Spectroscopy

¹L.Deva Vijila,²G.Leema Rose,³S.Aavila Thanga Bhoosan

¹Research Scholar(Reg.No.11089), Women's Christian College, Affiliated to
 Manonmanium Sundaranar University, Thirunelveli.

²Department of Chemistry, Holy Cross College (Autonomous), Nagercoil.

³Department of Chemistry, Women's Christian College, Nagercoil.

Abstract

Green methods of synthesis of nanoparticles have various advantages over chemical methods. Manganese oxide nanomaterials are biosynthesized from manganese (II) chloride using medicinal plant extracts *Acalypha indica*, *Cassia occidentalis*, *Cleome viscosa*, *Euphorbia hirta* and *Ecbolium ligustrinum* as reducing agents. The resulting nanoparticles are characterized using UV- Vis and FTIR. The UV- Vis absorbance peak from 265 – 269 nm indicates the formation of Manganese oxide nanoparticles. The FTIR results of all the samples confirm the formation of manganese oxide nanoparticles.

Key Words: Manganese oxide, green methods, reducing agents, *Ecbolium ligustrinum*, *Cassia occidentalis*.

INTRODUCTION

Medicinal plant extracts play very important role in our daily life [1] The increase in environmental pollution motivates us to think of an alternative way of synthesizing nanoparticles that can be carried out in an environmentally friendly manner. Plant extracts can play a vital role in synthesizing nanoparticles. Hundreds of plant extracts are found to have the capacity of reducing metal salts to their corresponding metal oxides. Plant mediated synthesis reduces the expense of synthesizing nanoparticles and follows green methods [2,3,4]. Medicinal plant extracts using alcohol as solvent possess a large number of organic compounds which helps in reducing metal salts to the corresponding nano metal oxides. Leaves of five medicinal plants *Acalypha indica*, *Cassia occidentalis*, *Cleome viscosa*, *Euphorbia hirta* and *Ecbolium ligustrinum* were selected for the study.

Materials and methods

The leaves of medicinal plants like *Acalypha indica*, *Cassia occidentalis*, *Cleome viscosa*, *Euphorbia hirta* and *Ecbolium ligustrinum* were collected from Kurusady village, Kanyakumari District, Tamilnadu and shade dried. The dried leaves were powdered in a mixer grinder and extracted using ethyl alcohol in a soxhlet extractor. Manganese (II) chloride was purchased from Merck Life Science Private Limited, India. 25 grams of



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Invitro Anti-Proliferative Effect of Ruthenium(II)-Bipyridine-Phendione Complex on Sk-Mel-28 Cell Line

Santhiya.S¹ and Sheeba Daniel^{2*}

¹Research Scholar(Reg.No:18213042032009), Department of Chemistry, Holy Cross College (Autonomous), Nagercoil. Affiliated to Manonmanium Sundaranar University, Tirunelveli.

^{2*}Department of Chemistry, Holy Cross College (Autonomous), Nagercoil - 4.

Email: sheebadaniel@holycrossngl.edu.in

Abstract

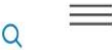
Melanoma is the most aggressive and chemoresistant form of skin cancer. SK-MEL-28 cell line is one of a series of melanoma cell lines. The objective of the present investigation is to study the anticancer activity of Ruthenium(II)-bipyridine-phendione complex $\{[Ru(bpy)_2(phendione)]^{2+}$ (bpy = 2,2'-bipyridine and phendione = 1,10-phenanthroline-5,6-dione) on SK-MEL-28 cell line. The morphology of the SK-MEL-28 cell line at various concentrations of the $[Ru(bpy)_2(phendione)]^{2+}$ complex is assessed by two-fold dilution method and the *invitro* anti-proliferative effect of the complex on the cell line is analysed by direct microscopic observation. The percentage viability of various concentrations of the complex in cancerous SK-MEL-28 cell line against the control is calculated by MTT assay method. The IC_{50} value of this complex against the SK-MEL-28 cell is determined and it is found to be 28.600 $\mu g/ml$, which shows good anti-proliferative effect. The results revealed that the percentage of growth inhibition of the cell decreases with increase in the concentration of the complex and this is indicated by the formation of formazan crystal. Hence it is evident and clear that the synthesised $[Ru(bpy)_2(phendione)]^{2+}$ complex shows anti-skin cancer activity and shows late apoptosis which is observed by double staining fluorescence microscopy.

Keywords: $[Ru(bpy)_2(phendione)]^{2+}$ complex, Anti-skin cancer activity, SK-MEL-28 cell line, Anti-proliferative effect, MTT assay, Fluorescence microscopy

1. INTRODUCTION

Metal complexes of nitrogen-substituted, phenanthrene-based ligands have shown significant potential as broad-spectrum agents capable of eliciting cytotoxicity toward diseases and infections manifested by cancer, viruses, bacteria and fungi [1]. Metal complexes display unique properties in terms of tuneable geometry, electrochemical and photophysical properties and biological activity. In this context, ruthenium complexes have been the focus of much attention during the past decade as promising alternatives to platinum based anti-cancer agents. Ruthenium complexes have received increasing attention in the field of medicinal chemistry, especially in the development of chemotherapeutics that present minimal side





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Source type: Journal

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Synthesis, spectral characterization, electrochemical, anti-microbial and DNA binding studies of new schiff base metal(II) complexes derived from Isoniazid and 2-(4-amino-phenyl)-2H-isoquinolin-1-one

R. Vijimalar^{1*}, G. Leema Rose² and J. Joseph³

1. Department of Chemistry, Womens' Christian College, Nagercoil, Tamil Nadu, India. (Affiliated by Manonmanium Sundaranar University, Abisekapatti, Tamil Nadu, India). 2. Department of Chemistry, Holy Cross College (Autonomous), Nagercoil, Kanyakumari District, Tamil Nadu, India. 3. Department of Chemistry, Noorul Islam University, Kumarakoil, Kanyakumari District, Tamil Nadu, India.

Correspondence author: R. Vijimalar, e-mail: rvijisubash@gmail.com

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Abstract

Novel complexes of Cu(II), Co(II), Zn(II) and Ni(II) with isoniazid derivative (derived from 2-(4-Amino-phenyl)-2H-isoquinolin-1-one and isoniazid) were synthesized and characterized by different analytical and spectral techniques including elemental analysis, magnetic susceptibility measurements, molar conductivity, IR, ¹H-NMR, ¹³C-NMR, UV-Vis., FAB Mass spectra, EPR, thermal analysis and DNA binding studies. The synthesized metal complexes exhibited notable antibacterial activity against the organisms *Escherichia coli*, *Staphylococcus aureus*, *Klebsiella pneumoniae*, *Proteus mirabilis* and *Salmonella typhi* when compared with the standard antibiotic (Streptomycin). The ligand and its metal complexes were examined for antioxidant activity and all the complexes showed favorable free radical scavenging activity. Among the synthesized metal complexes, the copper complex manifested the highest activity.

Keywords: Isoniazid, Antioxidant, *Escherichia Coli*, *Staphylococcus Aureus*, *Klebsiella Pneumoniae*, *Proteus Mirabilis*, *Mycobacterium Tuberculosis*.

Introduction

Tuberculosis (TB) is a serious health issue that causes the death of about three million people in the world every year [1]. TB is caused by *Mycobacterium tuberculosis* (MTb), an airborne pathogen transmitted among humans which infects macrophages in the lungs. Effective chemotherapy for tuberculosis began in 1940s with the discovery of streptomycin (STR) and *p*-aminosalicylic acid (PAS) [2-7]. The 1950s were significant because of the discovery and initial use of isoniazid. **Isoniazid**, also known as **isonicotinylhydrazide (INH)**, is an antibiotic used as a first-line agent for the prevention and treatment of both latent and active tuberculosis [8-9]. The compound was first synthesised in 1912, but its activity against tuberculosis was first reported in the early 1950s [10-15].

Isoniazid and its derivatives form an important class of heterocyclic compounds with a wide range of applications. They have been found to have many therapeutic uses such as anti-carcinogenic, antioxidant, anti-inflammatory, and anti-bacterial activity [16-19]. Many commercially available drugs cause severe side effects and to minimize these effects, lot of structurally similar analogues have been synthesised.

The present research work aims at synthesizing hybrid compounds through the combination of different metal ions with an isoniazid derivative for obtaining potent antimicrobial lead compounds and it will be characterized using spectral and analytical studies. Further, they were screened for different biological activities.

Experimental

Materials

All the solvents and chemicals used in the synthesis were purchased from Sigma-Aldrich suppliers and purified when necessary. Elemental analyses were evaluated by using Elemental Analyzer Carlo Erba EA1108 analyzer. Molar conductivity measurements were recorded on Remi Conductivity Bridge with a cell having cell constant 0.51 and magnetic moment was carried out using Faraday balance.

The IR spectra of the synthesized compounds were recorded on a Shimadzu FTIR Affinity-1 Spectrophotometer in the 4000-400 cm⁻¹ region in KBr disc. The electronic spectra of the complexes were recorded in HPLC grade DMSO on a Systronics UV-Visible spectrophotometer in the region of 200-1100 nm.





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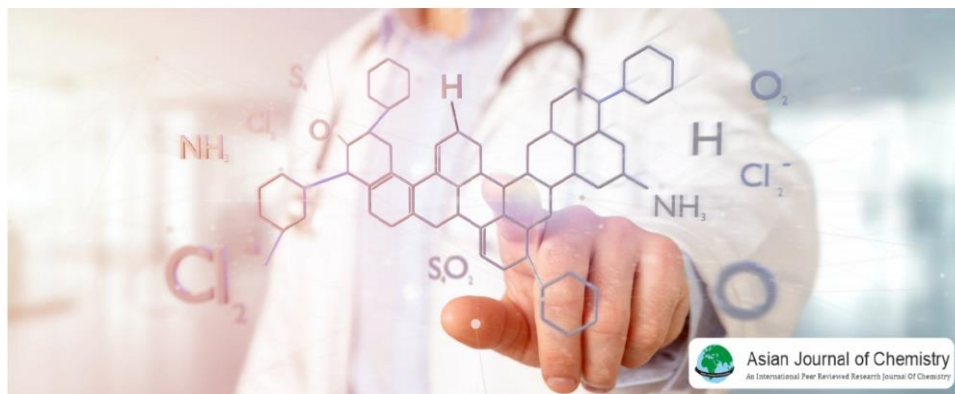
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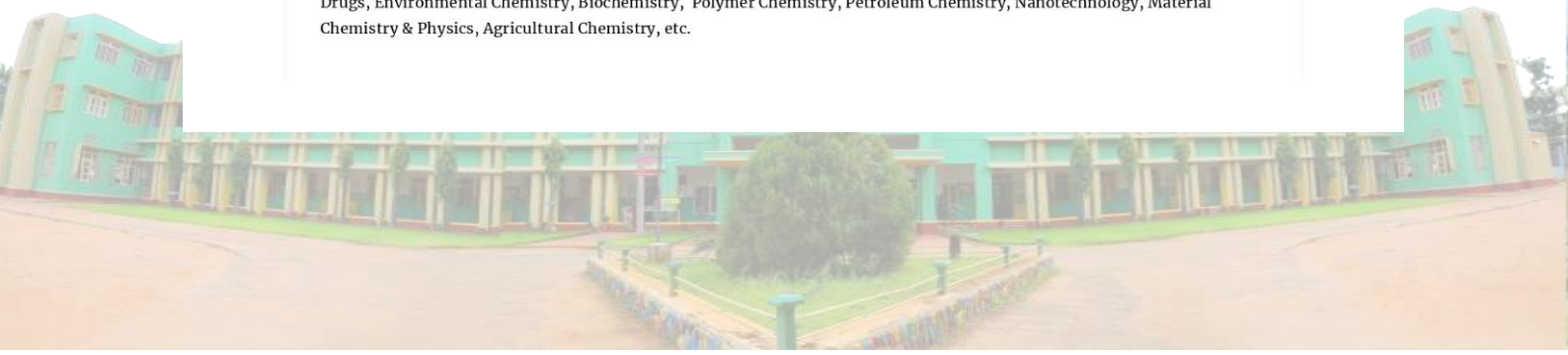
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Biological Evaluation of Dihydropyrimidinone Synthesized from Vanillin, Ethylacetoacetate and Urea using Gooseberry Extract

K. SARANIYA, P. VINITHA, T.R. SCOTLIN BLESSY and SHEEBA DANIEL*

Department of Chemistry and Research Centre, Holy Cross College (Autonomous), Nagercoil-629004, India

*Corresponding author; E-mail: sheebadaniel@holycrossngl.edu.in

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The present study focuses on the synthesis, characterization and biological evaluation of dihydropyrimidinone derivative ethyl-4-(4-hydroxy-3-methoxyphenyl)-6-methyl-2-oxo-1,2,3,4-tetrahydropyrimidine-5-carboxylate from vanillin, ethylacetoacetate and urea using gooseberry extract. The synthesised compound is characterized by UV-visible and FT-IR spectroscopy. The synthesised compound shows antibacterial, antifungal, antioxidant and anthelmintic activities. This natural acid catalyzed synthesis is safe, eco-friendly and does not employ any toxic materials and quantifying it as a green approach for the synthesis of organic compounds.

Keywords: Green synthesis, Dihydropyrimidinone derivative, Antimicrobial activities.

INTRODUCTION

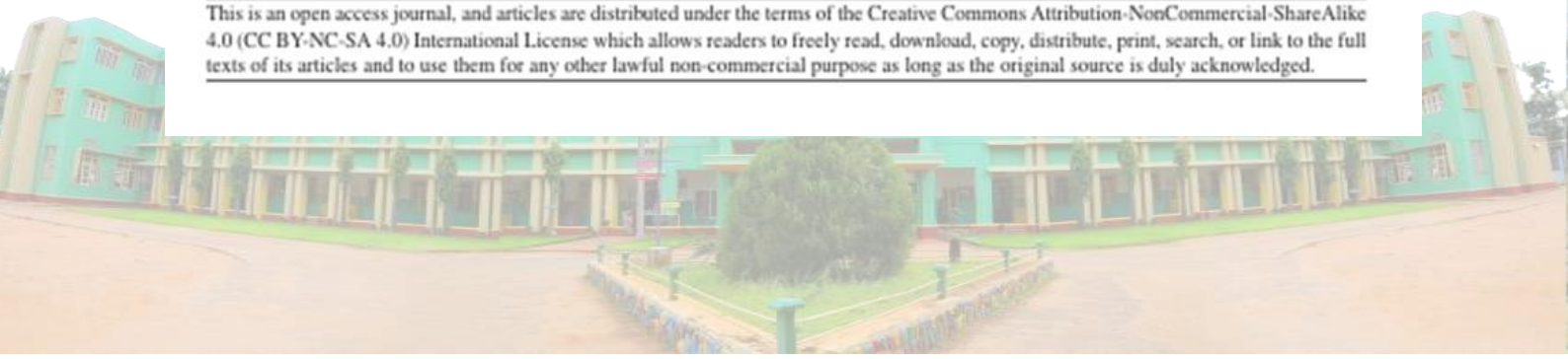
Green chemistry approach is an eco-friendly approach which is used to prevent, or at least reduce pollution and has tremendous application in synthetic organic chemistry. This technique consists of an alternative reaction media to replace hazardous and expensive solvents consistently used in organic synthesis [1]. Green synthesis of organic compounds using solvent-free condition has gained popularity in recent years, since the majority of solvents are either toxic or flammable. Compared with conventional method the solvent free method is more convenient, simple to run, provide higher yield and shows maximum efficiency [2]. Recently fruit juice is known to be the potential organic solvent for the synthesis of pharmaceutically important organic compounds [3]. Fruit juices are used for various organic transformation reactions [4,5] and its widespread applications are due to their inexpensive, non-toxic, safe and environmentally benign nature [6].

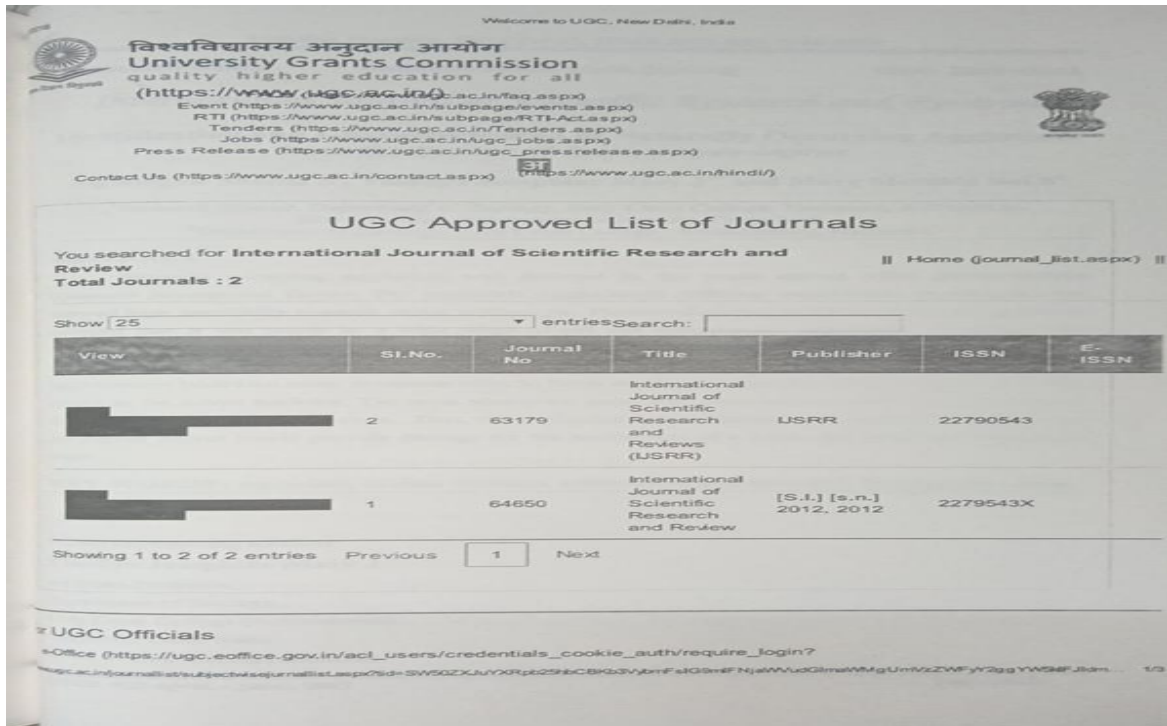
Dihydropyrimidinones, the products of Biginelli reaction, are widely used in the pharmaceutical industries. Research has stimulated the invention of a wide range of synthetic methods for their preparation and chemical transformations. Dihydropyrimidinones and their derivatives show wide range of applications in natural, synthetic, pharmacological, therapeutic and

bioorganic chemistry mainly due to their biological activities [7,8]. Moreover, dihydropyrimidinones have been suggested to be useful building blocks for synthesis of natural products, such as the batzelladine family of polycyclic marine alkaloids [9] of which batzelladine alkaloids have been found to be potent HIV gp-120-CD4 inhibitors [10].

The simple one-pot three component procedure for the synthesis of dihydropyrimidinone was first reported by Biginelli and Gazz in 1893 [11]. However, this reaction requires harsh condition, long reaction time and affords low yields, particularly when substituted aromatic aldehydes are employed. To overcome these disadvantages, several protocols have been developed to modify this reaction by means of microwave irradiation, ultrasound irradiation using various reagents. Researchers reported the synthesis of dihydropyrimidinones using various reagents or catalyst such as ionic liquids, metal oxide nanoparticles, enzyme, phase transfer catalysts, nanomagnetic-supported sulphonic acid, iron(III) tosylate, bis[(L)prolinato-N,O] Zn-water, 1-glycol-3-methylimidazolium chloride, Cu(II) complex, SiO₂-CuCl₂, metal oxide-MWCNTs, FeCl₃ and boehmite nanoparticle, nanosilica-supported tin(II) chloride, graphite, trypsin, silica sulphuric acid, etc. [12-19]. However, inspite of their potential utility, many of these reported protocols have some drawbacks such as the use of expensive reagents,

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Prevalence of Laccase Producing Endophytic Microbes in *Musa acuminata* and *Hevea brasiliensis* Roots

J. Albino Wins¹, M. Arunachalam^{1*} and M. Murugan²

¹Sri Paramakalyani Centre for Environmental Sciences, Centre for Excellence in Environmental Sciences, Manonmaniam Sundaranar University, Alwarkurichi – 627412, Tirunelveli, Tamil Nadu

²Department of Biomedical Science and Technology, Noorul Islam Centre for Higher Education, Kumaracoil-629180, Tamil Nadu

ABSTRACT

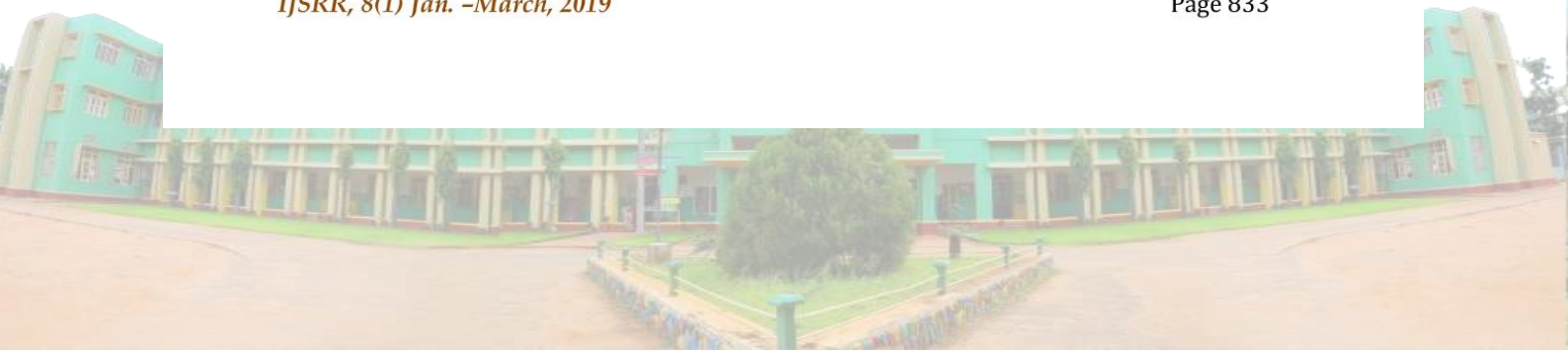
The present investigation clearly focuses on isolating, screening and biochemical characterization of laccase producing endophytic bacteria from the root samples of *Musa acuminata* and *Hevea Brasiliensis*. In this study, *Musa acuminata* showed 18 distinct morphological colonies and *Hevea Brasiliensis* exhibited 10 distinct colonies. Among the 28 colonies isolated, 9 colonies showed laccase producing capabilities. These isolates were identified by morphological, cultural and biochemical characteristics. The identified species were *Bacillus* sp., *Klebsiella* sp., *Pseudomonas* sp., *Clavobacter* sp., *Micrococcus* sp., *Xanthomonas* sp., *Enterobacter* sp., *Serratia* sp. And *Escherichia coli*.

KEYWORDS: Enzymes, Laccase, Endophytes, Microorganisms,

***Corresponding Author**

J. Albino Wins

Sri Paramakalyani Centre for Environmental Sciences,
Centre for Excellence in Environmental Sciences,
Alwarkurichi, Tirunelveli - 627,
Tamil Nadu, India
Email: winsbt@gmail.com



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Phytochemical Analysis and Biomedical Applications of *Ipomoea pescaprae* Flower Extract-An *In Vitro* Study

Nightingale Sheeba, S¹, Vinoliya Josephine Mary, J^{2*}, Mary Mettilda Bai, S³ and Jilian V. Paul⁴

¹Research Scholar, ^{2,3}Assistant professors, ⁴Teaching Assistant.

^{1,2,3} Department of Zoology, Holy Cross College (Autonomous), Nagercoil.

⁴Department of Biomedical Sciences, Alagappa University, Karaikudi.

¹Affiliated to Manonmaniam Sundaranar University, Abishekapatti, Tirunelveli – 627 012, Tamil Nadu, India.

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Corresponding Author Email: vinoliya75@gmail.com

Abstract

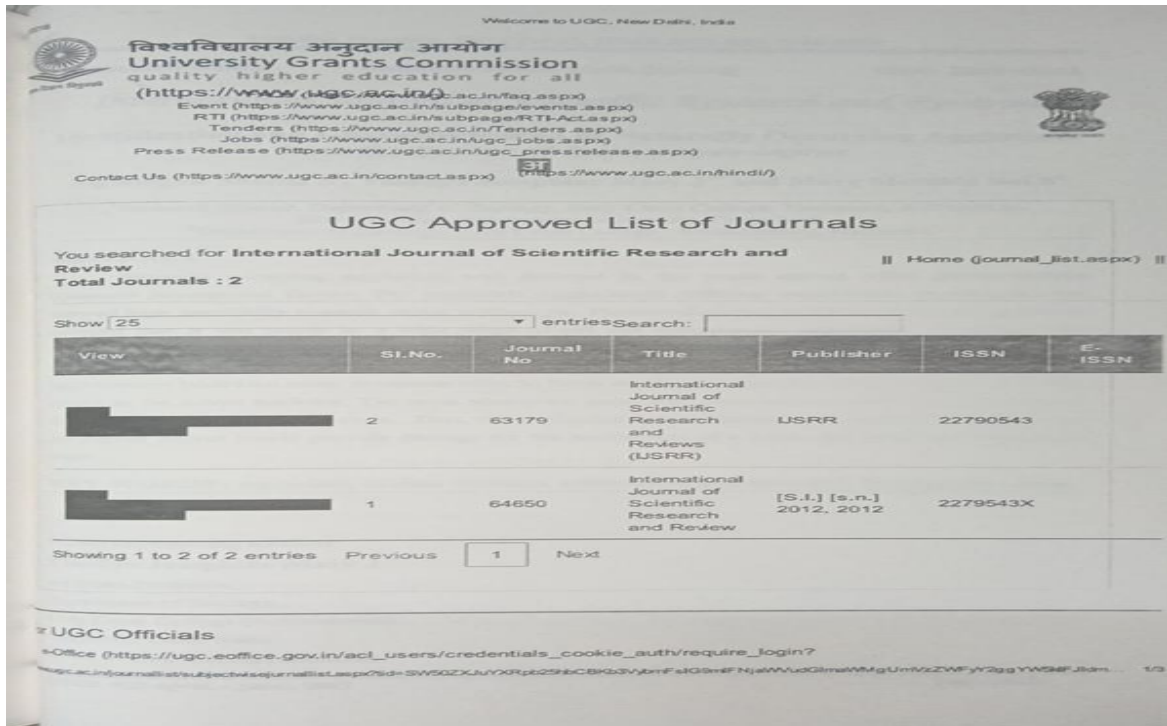
Traditional remedies have a long-standing history in India and continue to provide very useful and applicable tools for treating various ailments. *Ipomoea pes-caprae* /*Ipomoea biloba* commonly known as morning glory which is found along the sea shore belongs to the family Convolvulaceae. Phytochemical analysis revealed the presence of protein, saponin, tannin, glycosides, alkaloid and flavonoid as the major components in the flower extract of *Ipomoea pes-caprae*. Aqueous extract of the fresh flower was evaluated for its antibacterial potential against Gram +ve and Gram –ve bacteria such as *Staphylococcus aureus*, *Bacillus subtilis*, *Streptococcus mutans*, *Lactobacillus sp.*, *Proteus vulgaris*, *Klebsiella pneumoniae*, *Escherichia coli* and *Proteus mirabilis*. The aqueous extract inhibited most of the selected bacteria except *Klebsiella pneumoniae*. The anticancer activities of the flower of *Ipomoea pes-caprae* were evaluated against cell lines A549, HT29 and MCF7. High cytotoxic effect was observed against A549 cell line. Our results suggest that flower extracts are promising therapeutic agents that can target specific bacteria and cancer cells.

Keywords

Antibacterial, Antiproliferative, Cytotoxic, Phytochemical.

INTRODUCTION

Medicinal plants are currently in considerable source of therapeutic phytochemicals that may lead to significance due to their special attributes as a large the development of novel drugs [1].



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International Journal of Scientific Research and Reviews

Antimicrobial activity of coelomic fluid and coelomic fluid lectin from starfish *Protoreaster linckii* (Blainville, 1830)

Jilian V. Paul¹, Vinoliya Josephine Mary J^{2*}, Nightingale Sheeba S³,
and Mary Mettilda Bai S⁴

¹Teaching Assistant, Department of Biomedical Science, Alagappa University, Karaikudi, Tamil Nadu, India, jilianledaas@yahoo.com

^{2*}Assistant professors, Department of Zoology, Holy Cross College (Autonomous), Nagercoil, Kanyakumari, Tamil Nadu, India, vinoliya75@gmail.com

³Research Scholar, Department of Zoology, Holy Cross College (Autonomous), Nagercoil, Kanyakumari, Tamil Nadu, India, sheebasundar84@gmail.com

⁴Assistant professors, Department of Zoology, Holy Cross College (Autonomous), Nagercoil, Kanyakumari, Tamil Nadu, India, metti.silvester@gmail.com

ABSTRACT

Lectin from the coelomic fluid of the starfish, *Protoreaster linckii* was purified by affinity chromatography using PSM (Porcine Stomach Mucin). The purified lectin has the capacity to bind to fungal cell structures that express sugars like galactosamine, glucose and fucose on the surface thus paving way for lectin targeted therapy. Antimicrobial potential of solvent extracts of coelomic fluid and crude coelomic fluid of starfish, *Protoreaster linckii* was assessed against five human pathogenic bacteria, two fungal pathogens and five fish pathogenic bacteria. Only fish pathogenic bacteria, *Staphylococcus aureus* and human fungal pathogens *Aspergillus niger* and *Aspergillus flavus* were sensitive to crude coelomic fluid. Hence it was attempted to compare the crude coelomic fluid with the purified coelomic fluid lectin. It was noted that the lyophilized crude coelomic fluid and purified lectin was efficient in inhibiting the growth of the human fungal pathogens *A. flavus* and *A. niger*. From our studies it is clear that *Protoreaster linckii* lectin is capable of specifically recognizing the sugar moieties present in the cell wall of both the fungi. Hence this could be in future used as an anti-fungal agent.

KEY WORDS

Coelomic fluid, affinity chromatography, lectin, antimicrobial potential, antimicrobial assay

*Corresponding author

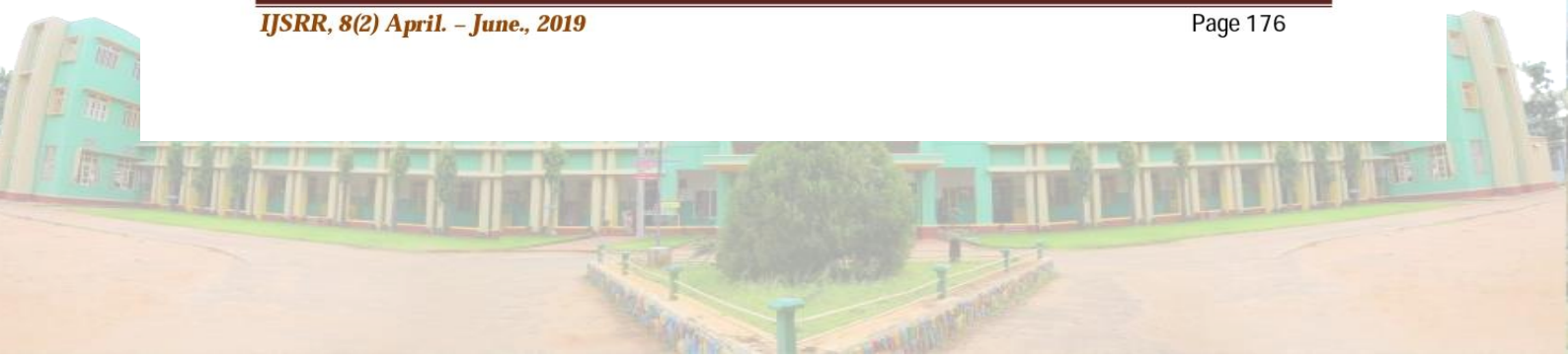
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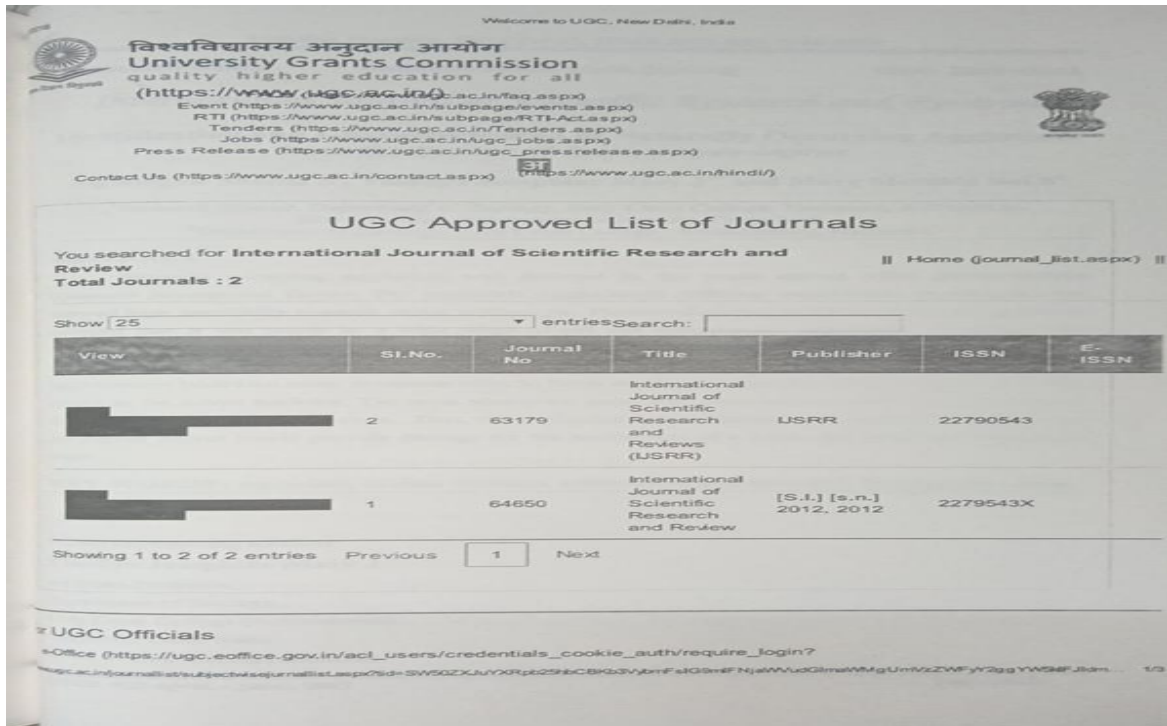
Assistant Professor,

Department of Zoology, Holy Cross College (Autonomous),

Nagercoil, Tamil Nadu.

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Identification and Characterization of Naturally Occurring Agglutinin from the Flower of *Ipomoea pes-caprae*

Nightingale Sheeba S¹, Vinoliya Josephine Mary J^{2*} and Mary Mettilda Bai S²

¹Research Scholar, Department of Zoology, Holy Cross College, Nagercoil, Affiliated to Manonmaniam Sundaranar University, Tirunelveli.

²Department of Zoology, Holy Cross College (Autonomous), Nagercoil.

ABSTRACT

Naturally occurring agglutinin was detected in the crude extract of the *Ipomoea biloba* (*Ipomoea pes-caprae*) flower. The agglutinin agglutinated different mammalian erythrocytes but showed high specificity towards rabbit erythrocyte. Physico-chemical analysis of flower agglutinin revealed that it was stable to a wide range of pH and temperature, dependant on calcium and sensitive to calcium chelators. Enzyme treatment of erythrocytes showed an increased HATitre with trypsin, slight decrease with neuraminidase and remained unaffected with neutral protease. Hem agglutination inhibition assay document edlac to ferrin among glycoprotein's and D-mannose among sugars as the potent inhibitor. The cross adsorption assay with pre-adsorbed erythrocytes suggested the presence of a single agglutinin. Thus, this preliminary characterization of agglutinin of *Ipomoea pes-caprae* flower would provide strategy for the purification of a lectin and assess its therapeutic value.

KEY WORDS: Agglutinin, calcium chelators, erythrocytes, glycoprotein's, *Ipomoea pes-caprae*.

*Corresponding author

Vinoliya Josephine Mary J

Assistant Professor,

Department of Zoology,

Holy Cross College (Autonomous),

Nagercoil. Tamil Nadu.

Email id: vinoliya75@gmail.com



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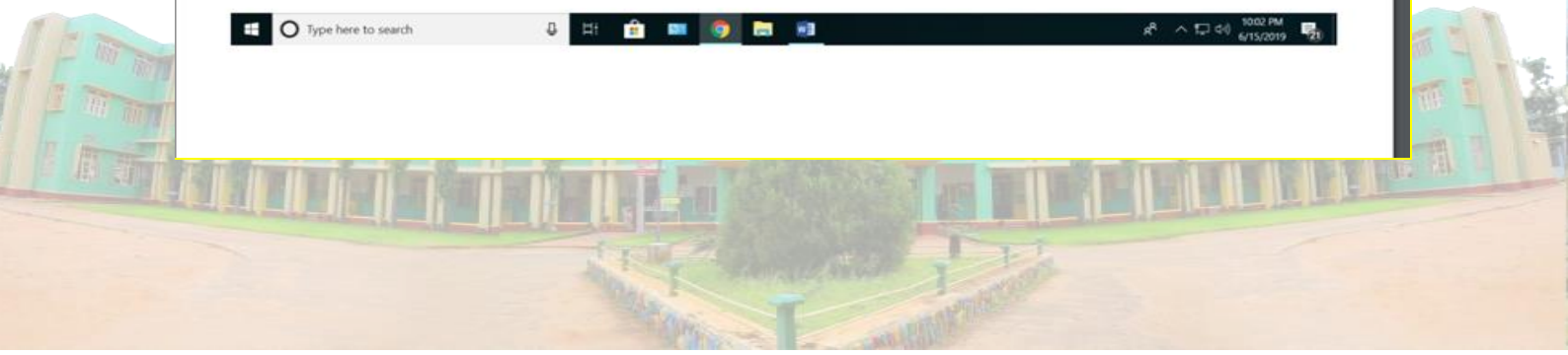
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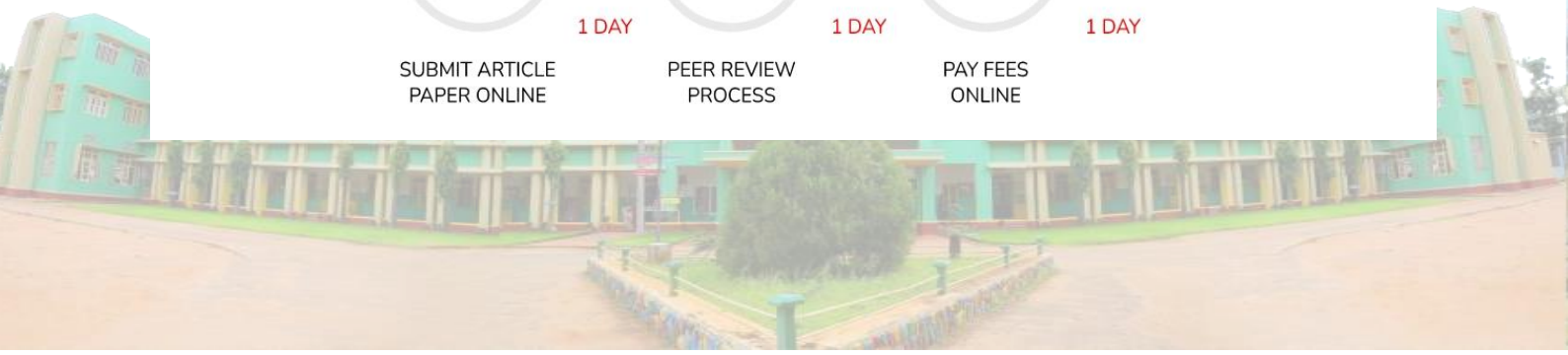
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Harrowing Experiences to Triumph in Living Smile Vidya's *I am Vidya: A Transformative Journey*

P. Mary Joshy,
M. Phil Scholar,
Department of English,
Holy Cross College (Autonomous),
Nagercoil.
Dr. H. Jimsy Asha,
Assistant Professor of English,
Holy Cross College (Autonomous),
Nagercoil.

Abstract

Living Smile Vidya is a famous transgender writer. Through her autobiography, she portrays gender issues, social exclusion and how she overcomes the difficulties through education. She is a transgender activist and motivates others to achieve greatness through intelligence, determination and confidence. Transgender community faces marginalization, social isolation, unemployment, discrimination, depression, *nirvana* etc. They should have the equal rights to lead a peaceful life. Through proper education only, transgender community will overcome all the difficulties and achieve higher level.

Key Words: Transgender, social exclusion, marginalization, discrimination, social isolation, *nirvana*.

Transgender community is fronting many trials and tribulations in the society. Most of them are thrown out from their family and have no economic sources. They are ill-treated by the brutal society and are not considered as normal human beings. For the fulfillment of their life, they beg, go for bar dances and do sex work. People ignore their rights and restrict them from accessing education, health services, and public spaces. They live in isolated areas and they are silenced by the majority. Many transgender communities do not get the chance to study and they find it difficult to get jobs.

Transgender people are often prone to many problems. These transgender people not only face problems after their metamorphosis, but also during their early childhood. Some people lose the childhood pleasures and have no freedom to play with other children. Transgenders have darker childhood memories.

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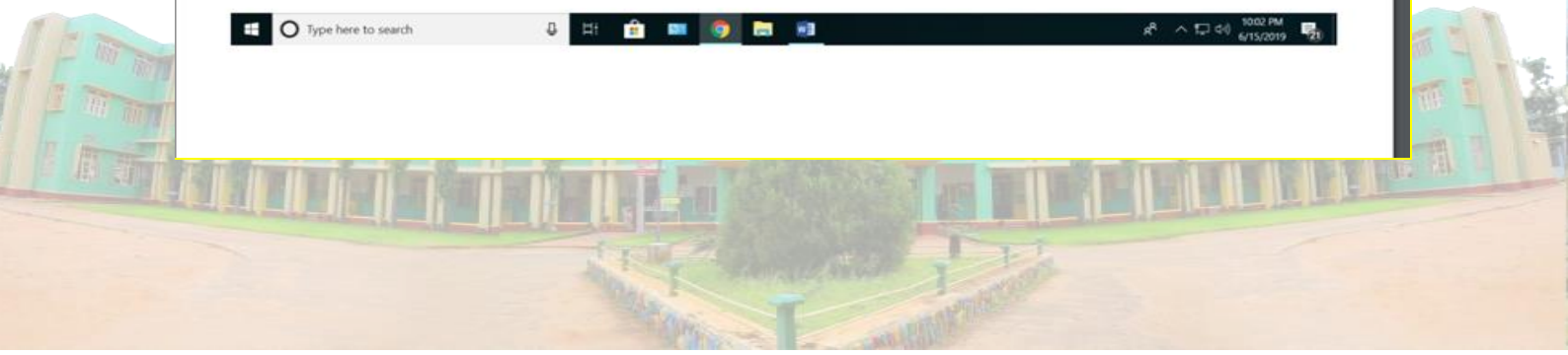
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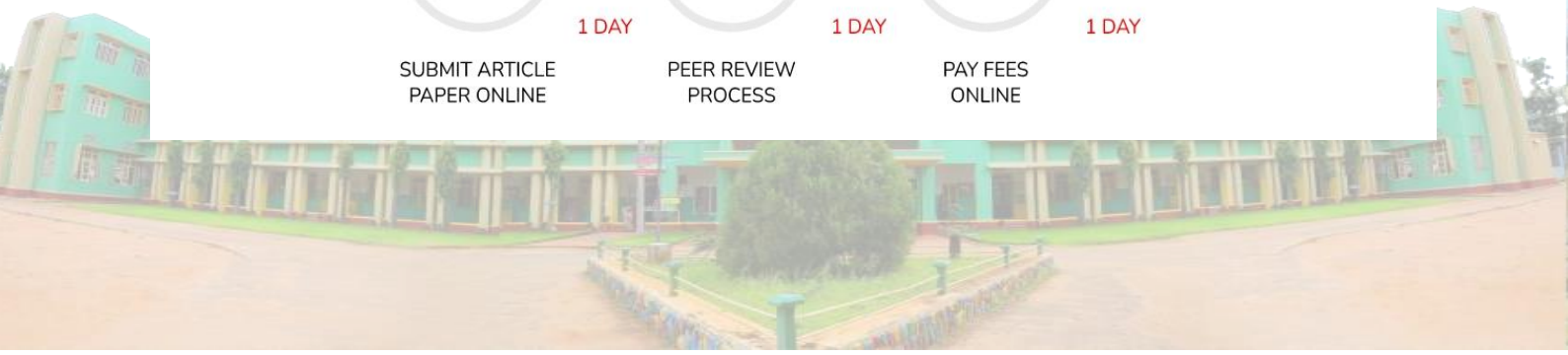
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Culture and Woman in Perumal Murugan's *One Part Woman.*

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Department of English,

Holy Cross College (Autonomous),

Nagercoil

Dr. H. Jimsy Asha,

Assistant Professor of English,

Holy Cross College Autonomous,

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Abstract

Perumal Murugan is a writer and lecturer in Tamil literature working in Government Arts and Science College in Namakkal district. Murugan is strictly against the caste orders and casteist origination. He is a contemporary Tamil writer, but he strictly believes even now people are following class division and caste based difference between them. For instance the current religious issues indicate that people get more insane about their caste and religious believes. Murugan gives more awareness to caste through his novel. The loveable couple, Ponna and Kali break their nuptials promises and choose their own way of life. Murugan through these novels, *One Part Woman* puts forth a message that the unwanted believes and rituals can distract everyone's life. Ponna, and Kali, are the victims of redundant cultural practices. The couples start their life with hopes and dreams but later their hopes and dreams are shattered by the social orders.

Key Words: Caste, Cultural Studies, Religion, and Religious Fundamentalism.

Culture refers to a set of practices. Culture plays an important role in understanding human life. It partially and basically involves some cultural practices, discrimination, and intolerance. In an interview with UN News Centre, Paulo Coelho, the Brazilian novelist states "Culture makes people understand each other better. And if they understand each other better in their soul, it is easier to

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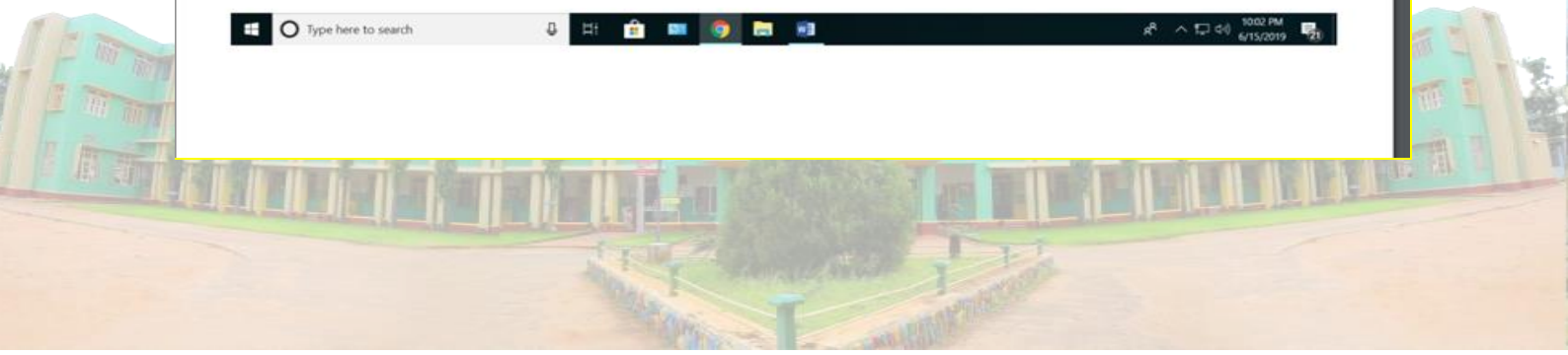
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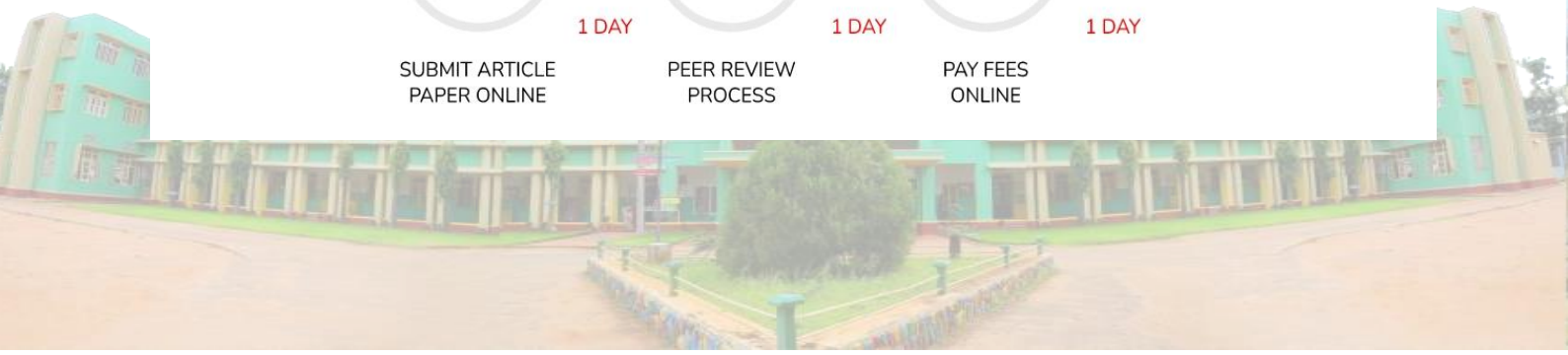
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Impalpable Tribulations of Afghan Children in Khaled Hosseini's *The Kite Runner*

J. Roselin Jemi

Research Scholar

Holy Cross College (Autonomous)

Affiliated to M.S University

Nagercoil-629004

Jemysubha@gmail.com

Dr. J. Jimsy Asha

Assistant Professor in English

Holy Cross College (Autonomous)

Affiliated to M.S University

Nagercoil-629004

Abstract:

Children are the gift of God. Children are innocent, pure and they are filled with vibe, freshness, unadulterated love, fun, appreciation and excitement. Children adorn the world into a beautiful garden. But the savage world is crushing, persecuting, abusing and tormenting these frail flowers mercilessly. Children are born to fly, but their wings are clipped, their innocence is misused, their vibes are misapplied and their laughs are turned to screams. If this is the condition of children in normal world, the situation becomes worse in war torn lands. Children are greatly affected in wars. Violence crushed their spirit and body. One such land that is dreadful for the survival of children is Afghanistan. In Afghanistan children especially boys suffers in the name of cultural traditional practice Bacha Bazi. This paper sheds light on the physical and mental tribulations of Afghan children.

Key Words: Bacha Bazi, Trauma, Child abuse.

Children are the gift of God. Socrates says, an honest man is always a child. In *The Bible* Jesus Christ says no one will enter the kingdom of God until they are like kids. Children are innocent, pure and they are filled with vibe, freshness, unadulterated love, fun, appreciation and excitement. These beautiful children adorn the world into a beautiful garden. But the savage world is crushing, persecuting, abusing and tormenting these flowers mercilessly. Children are born to fly, but their wings are clipped, their innocence is misused, their vibes are misapplied and their laughs are turned to screams. Nelson Mandela, former president of South Africa states that a society's soul can be easily judged by the way it treats its children.

If this is the condition of children in normal world, the situation becomes worse in war torn lands. Children are greatly affected in war. Violence crushed their spirit and body. One such land that is dreadful for the survival of children is Afghanistan. Afghanistan remains a mystery to the world, but after 9/11 twin tower attacks the world's attention turn towards Afghanistan and they perceive it as the land of terrorists. But Afghan contemporary writer's tries to wipe out various misconceptions about their native land through their writings. They write about the natural and cultural beauty as well as the hidden dark secrets of Afghanistan. Their writings serve as windows to expose the dark sides of Afghan life especially the subjugated life of women and children. Their writing in European languages gives them an opportunity to expose various controversial and sensitive issues normally consider as a taboo in Afghanistan. One among the prominent Afghan migrant writer is Khaled Hosseini.

Khaled Hosseini is an Afghan born American novelist and physician. He has authored four books. His first novel is *The Kite Runner* (2003). *The Kite runner* boldly reveals the cruel cultural traditional practice of Bacha Bazi (boy play) in which small boys are sexually exploited by older men. Hosseini courageously take the risk of revealing his own nation's ignominious traditional practice of boy rape.

A report published by UNICEF (2015) identifies Afghanistan as the worst place to be born in the world. Afghan children are subjected to extreme violence and poverty. Most of the children are orphans or with one parent. Their situation is critical with high rate of mortality, malnutrition, sexual abuse, forced marriages and so on. In Afghanistan around 20% of children are working for survival they do all sort s of mean jobs like street vendors, water carriers, card board collectors, shoe polishers and servants. Begging becomes a common job for these delicate kids. Afghan children are victims of sexual abuse. More than 1500 incidents are recorded every year. Majority of the victims do not dare to reveal the atrocities done to them especially boys who are raped under the name of Bacha Bazi. About 40% of Pashtans in Afghanistan has created a children society where their memories are of war, torture, deception, lies and cruelty.

In Afghanistan one in every three children are experiencing psychological traumas like anxiety, depression and post-traumatic stress disorders. Traumas threaten the normal peace of mind of the Afghan children. Afghan children experience traumas because of accidents, domestic and communal violence and three decades of continuous wars. The persistent violence of twenty first century gives birth to a new theory called Trauma Theory. This millennium can be called as the century of traumas as it witness the bloodshed of many wars across the world (Sri Lanka, Libya, Syria, Iraq etc.) The impact of war creates trauma in all sorts of discipline like Literature, Psychology, Social sciences and so on.

Cathy Caruth is the Professor of Human Letters at Cornell University. She has authored many books on trauma and the popular one is *Unclaimed Experience: Trauma Narrative and History* (1996). This theory arises from her interpretation of Freud's traumatic explanation in *Beyond the Pleasure Principle* and *Moses and Monotheism*. Freud's term 'Traumatic Neurosis' is termed as post-traumatic stress disorder, the core concept of trauma theory. The word trauma

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**Speaking through Symbols: An Analysis of Ruskin Bond's *Angry River*
and *All Roads Lead To Ganga***

A.R. Jemi

Ph.D. Research Scholar (Reg. No. 12425)
PG and Research Department of English
Holy Cross College (Autonomous), Nagercoil – 629 004.
(Affiliated to Manonmaniam Sundaranar University, Tirunelveli – 627 012, Tamil Nadu, India.)

Dr. Selva Mary Gokila S. George

Research Supervisor
PG and Research Department of English
Holy Cross College (Autonomous), Nagercoil – 629 004.
(Affiliated to Manonmaniam Sundaranar University, Tirunelveli – 627 012, Tamil Nadu, India.)

Abstract

The recital art of a story is determined by the kind of experience and the quality of vision, which the author seeks to convey through the mutual interaction with nature. Literary works bear testimony to the fact that the artistic quality of a good story lies ultimately in something beyond method and technique. Kempton has rightly observed, "a noble theme may sound merely pretentious under poor telling" (qtd. in Bhatt 151). Form and technique make the vital elements of a work of art, for, they are inseparable from the subject matter. The tactic of communicating ideas is the mark of good fiction.

Ruskin Bond, better perceived as the 'Indian Wordsworth', is a naturalist who breathes nature into all his works, writing passionately about all its elements. Being a reputed writer, he continues to live in isolation from the bustle and hustle of large cities, ploughing his lonely furrow. He is a lover of nature, whose simple yet highly evocative style reflects a deep kinship with the majestic Himalayas. Sense of beauty, liberty and harmony are the cardinal values of his world.

Bond is a great nature writer in the tradition of Wordsworth and Thoreau. But when they are romantic or mystic in their comprehension of nature, Bond is romantic and realistic par excellence. It owes much to his long association with the trees as well as to the geological records of the Himalayan flora. His creative imagination renders them in an absorbing narrative form. His readers are fascinated not by botanical details but by the warm touch of life stimulating sense of relationship- a bond which binds not only the writer but also the reader.

Key words: *Nature, symbols, mountains, trees, dream, bond, oneness.*

Bond's style showcases his acute power of understanding and deep insight. His style becomes quite powerful according to the occasions and situations. Bond uses symbolism to convey his thoughts vividly. Symbols are so naturally woven with human



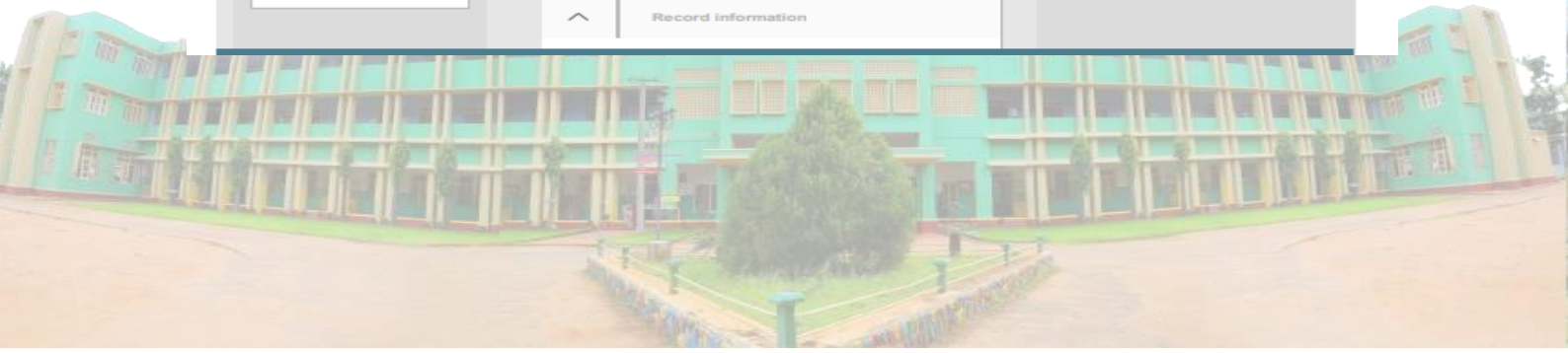
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Assertion of Identity Through Sisterhood as Seen in The Novel *Good*

***Harbor* By Anita Diamant.**

S.FranstaDarshana,

Research Scholar, Reg.No: 18123044012006

Dr. Alby Grace,

Assistant Professor, Department of English

Holy Cross College (Affiliated to ManonmaniamSundaranar University)

Nagercoil-4

Abstract

Female Bonding has become a central issue in women's fiction. Today, therefore, androgyny is no longer the feminist goal. Sisterhood enables them to discover themselves as persons and nurtures their ties with their community. Anita Diamant's major concern in her fictions is to depict the fragility of love and female friendship, the anguish as well as conflicts arising out of agonizing cruelty of temptation, and identity crisis conflicts of women characters. The novel chosen for discussion is *Good Harbor* by Anita Diamant. The novel reflects her experience as a wife, mother of a 16 year old daughter and a Jewish woman with deep connections to her synagogue and Rabbi. Female bonding is characterized by emotion of affection and trust. Only Kathleen and Joyce can understand the miseries of their lives. They are able to react to their problems and bond with each other very well. The paper "Assertion of



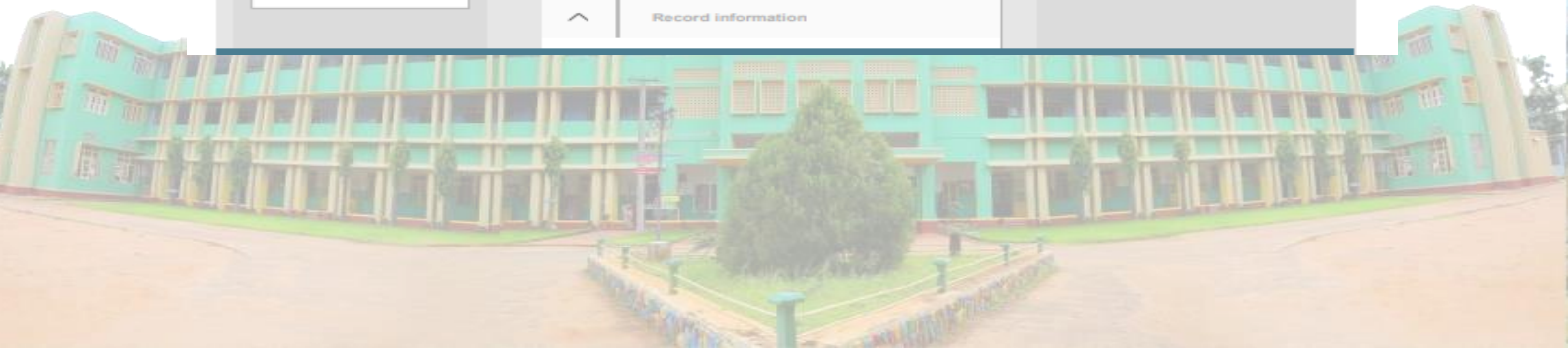
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History Research Journal

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Ecological and Cultural outlook on Nadia Hashimi's *The Pearl that Broke its Shell and One Half from the East*

R. Antony Vincily,

Reg.No: 18113044012007,

Research Scholar,

Holy Cross College (Autonomous),

Affiliated to Manonmaniam Sundaranar

University, Tirunelveli.

Nagercoil – 4

Dr. Alby Grace,

Assistant Professor,

PG& Research Department of English,

Holy Cross College (Autonomous),

Affiliated to Manonmaniam Sundaranar

University, Tirunelveli.

Nagercoil- 4

Key Words:

Ecology, Culture, Afghanistan, Invasions, Technological Inventions, Struggle for Existence.

Abstract:

Nadia Hashimi is a high-flying Afghan-American writer. She has authored about five novels. Though Hashimi is the citizen of America, she is very much concerned about her Afghan origin. Hashimi's works furnish magnitude to the tribulations of the Afghan society. Afghanistan is celebrated for its ecological wealth and affluent culture. The earlier green land of Afghanistan is turned into a parched land at present. Hashimi pinpoints the demolition of the profuse culture and the ecology due to the copious overseas incursion. Nadia Hashimi's novel *The Pearl that Broke its Shell* is a sequel to the novel *One Half from the East*. These novels glorify the cultural practices of



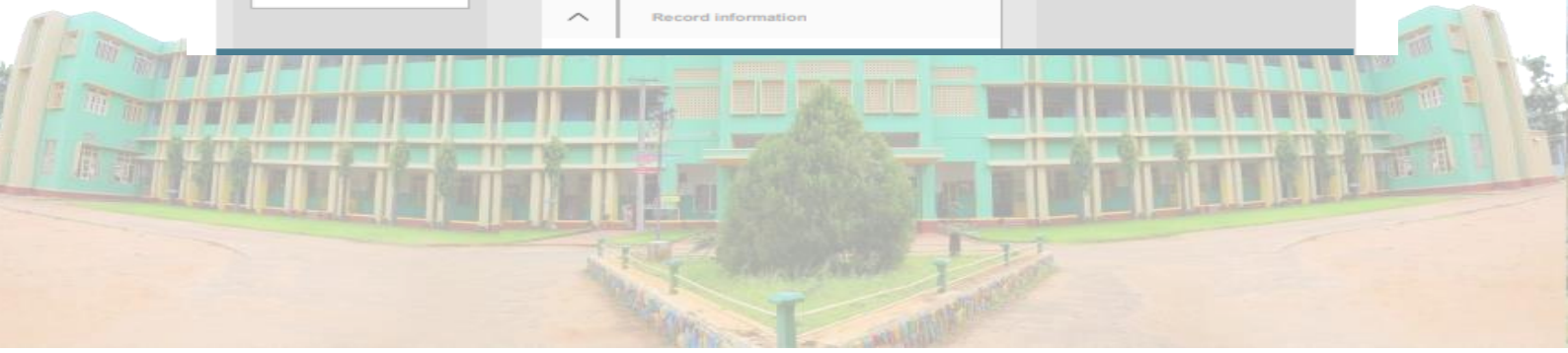
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History Research Journal

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Ruskin Bond's Crave for the Creation in *The Blue Umbrella* and *An Island of Trees*

A.R. Jemi,

Reg. no. 12425,

Research Scholar,

Holy Cross College (Autonomous), Affiliated to Maronmaniam Sundaranar University,

Abishekapatti, Tirunelveli- 627 012, Tamilnadu, India.

jemi2121@gmail.com

Dr. Selva Mary Gokila S. George,

Research Supervisor,

Holy Cross College (Autonomous), Affiliated to Maronmaniam Sundaranar University,

Abishekapatti, Tirunelveli-627 012, Tamilnadu, India.

bienselva@gmail.com

Abstract

Every human being gains knowledge through various experiences of nature. Just a passive observation of nature bestows knowledge. The sea, sand, mountains, rivers, plants, animals, climate, temperature and seasons influence the character and thinking of an individual. Environment influences people and inspires them to live ecologically. The emotional attachment and commitment towards environment inspires a person's experience and moulds his personality.



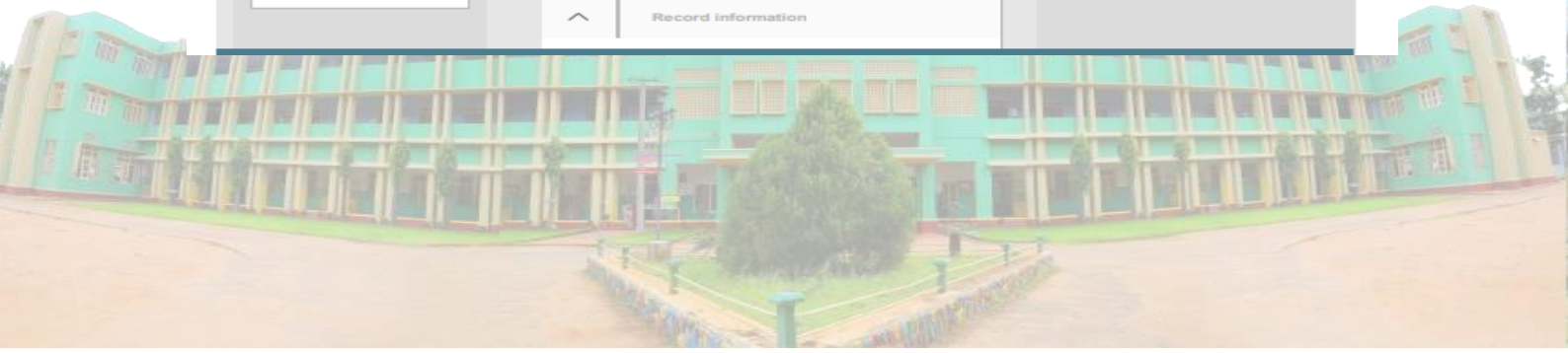
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History Research Journal

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Existential Overtones in Ibrahim al-Koni's *The Puppet*

S.A. Sovya Shephyr

Research Scholar

Reg No. 18113044012012

Holy Cross College (Autonomous)

[Affiliated to Manonmaniam Sundaranar
University, Thirunelveli.]

Nagercoil.

Dr. H. Jimsy Asha

Assistant Professor of English

Department of English

Holy Cross College (Autonomous)

[Affiliated to Manonmaniam Sundaranar
University, Tirunelveli.]

Nagercoil.

Abstract

The aim of the paper is to explore the indigenous Tuareg tribe of the Saharan desert with reference to the twentieth century philosophy, Existentialism. The philosophy highlights the individual existence, choice and freedom. The novel, *The Puppet*, an enthralling story of bloody betrayal and revenge inspired by gold lust is analyzed in the aspect of searching for one's true self. The paper deals with a nomad's purpose of life, the tribe's attitude towards commercialization and how they turned their back towards nomadic life, which made them to go to the extent of murdering. The Tuaregs who are known for freedom with a traditional past are slowly losing their culture due to commerce. The paper stresses the fact that the present condition is due to their incorrect choices or preferences of the tribe and not destiny.

Key Words: Tuaregs, indigenous, existentialism, freedom, traditional past, culture.

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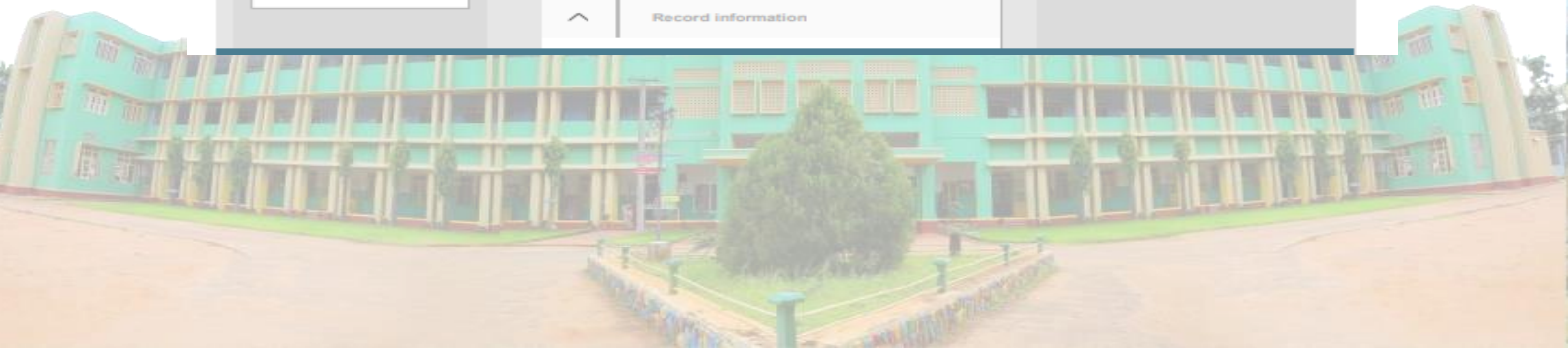
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History Research Journal

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**Hypnagogic Hallucinations in Atiq Rahimis *Earth and Ashes* and
*The Patience Stone***

J Roselin Jemi

Reg.No:18113044012008

Holy Cross College
(Affiliated to M.S University)

Holy Cross College

Nagercoil-629004

Abstract

Dr. H. Jimsy Asha

Assistant Professor of English

Holy Cross College
(Affiliated to M.S University)

Nagercoil-629004

Dreams are guided by the emotions of the dreamer and it has connection with the experiences in life. Dreams provide an explanatory metaphor for the dreamer's emotional state. Hartmann analyses that traumatic persons are more prone to scary and tortured dreams. Rahimi pictures the emotional trauma of Afghans and how they are struggling to cope with insomnia. War is deadly, in Afghanistan generations have grown only war. War affects the psychology of children in number of ways. In war the sufferers are the poor civilians. War ruins their confidence and their survival is on threat. They witness the death of their loved ones in bomb blasts or they are brutally killed in front of their eyes and it result in various sleep related traumas like hypnagogic hallucinations and nightmares.

Key words: War, trauma, dreams, hypnagogic hallucination.

"Great things can happen in dreams, great discoveries in science and art. The French chemist August Kekule discovered the structure of benzene ring in a dream. Elias Howe invented the sewing machine based on a dream. Robert Louis Stevenson reported that his novel *Dr. Jekyll And Mr Hyde* came to him directly from a dream. Wolfgang Amadeus Mozart claimed that many of the themes for his music came to him in dreams" (Hartmann 1).

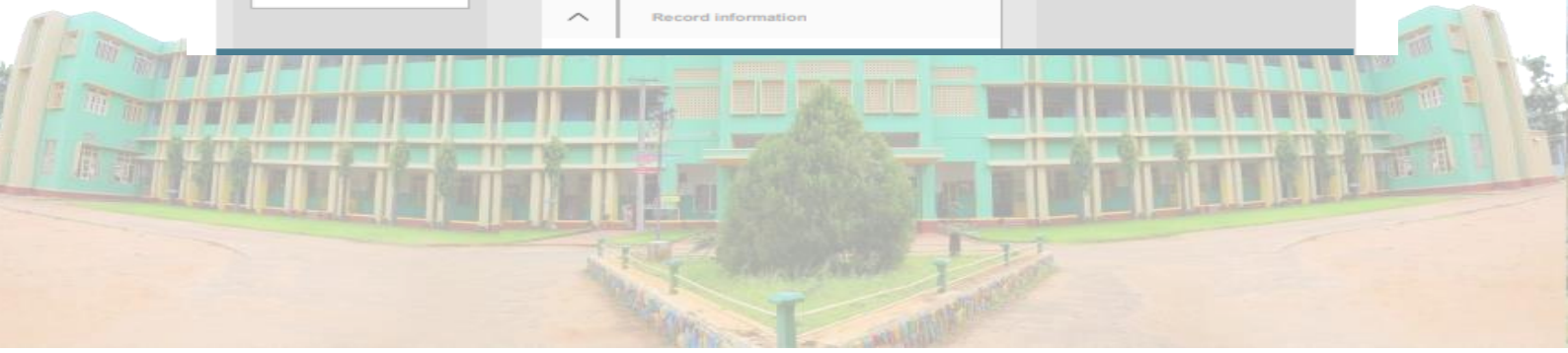
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History Research Journal

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Unveiling the Cultural Ambiguity: A Cultural Interpretation of Roma Tearne's *Brixton Beach*

Tessy.A.Joseph

Reg.No:18113044012010

Research Scholar

Holy Cross College

[Affiliated to M.S University]

Nagercoil-629004

Dr.H.Jimsy Asha

Asst.Professor of English

Holy Cross College

[Affiliated to M.S University]

Nagercoil-629004

Abstract

Roma Tearne the writer of the novel *Brixton Beach*, analyzes the quandary of Sri Lankan migrants living in a Western society and how some of the female characters triumph their feelings of estrangement and alienation to surface as individuals with their own logic of escalation. Being an expatriate, she elicits the story of Sri Lankan immigrants who flee from the civil war and try to acclimatize to life in the United Kingdom. The ethnic conflict in Sri Lanka depicts the realization of the unsettled situation in particular postcolonial societies after decolonization. Tearne's novel endows narrative representations of silence surrounding the married life of Sita and Stanley, who come from different ethnic backgrounds. The experience of a new and completely different place heartens the migrants to keep their language, traditions and culture to articulate their sense of otherness. The characters retain their traditions even though they are living in a foreign land. In *Brixton Beach*, Alice, Sita's daughter, experiences being alienated in her new environment in England and by her parents' separation. She is depicted as tussling for self-expression, which she later describes through her interest in art, rather than verbally. She is seen as trying to preserve her cultural identity in her confrontation with her



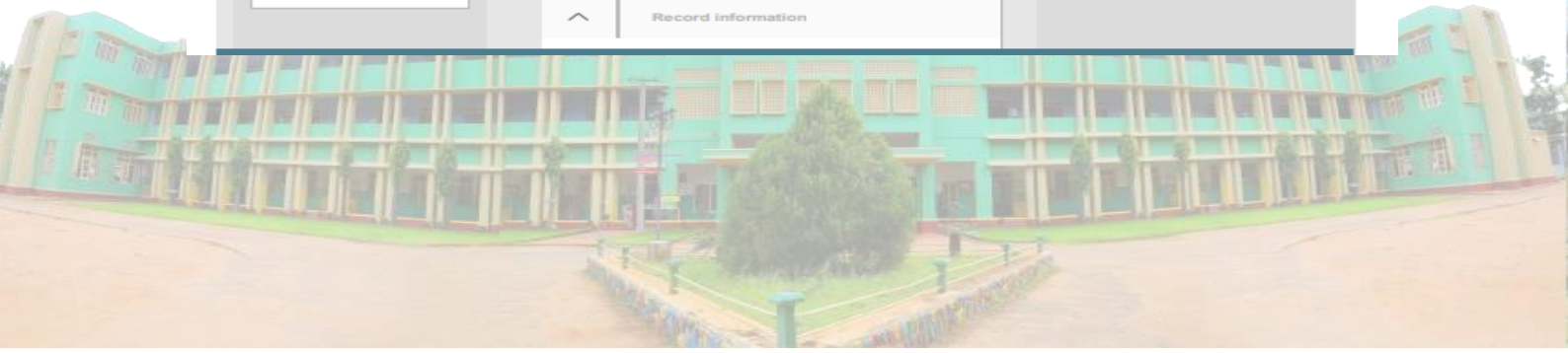
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Journal Details	
Journal Title (in English Language)	History Research Journal (print only) (Current Table of Content)
Journal Title (in Regional Language)	इतिहास संशोधन पत्रिका (print only)
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History Research Journal

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Reality Through The Lens Of Print Media In Kazuo Ishiguro's *Never Let Me Go*

V. Priyadharsini,

Reg no :19113044012011

Research Scholar,

Holy Cross College (Autonomous), Affiliated to Manonmaniam Sundaranar University,

Abishekapatti, Tirunelveli- 627 012, Tamilnadu, India.

priyadharsini3516@gmail.com

Dr. Selva Mary Gokila S. George,

Research Supervisor,

Holy Cross College (Autonomous), Affiliated to Manonmaniam Sundaranar University,

Abishekapatti, Tirunelveli- 627 012, Tamilnadu, India.

bienselva@gmail.com

Abstract

The paper entitled "Reality through the lens of print media in Kazuo Ishiguro's *Never Let Me Go*" aims to explore the literary perspective and mainly engages with the themes of the novel. It also examines various kinds of medical issues related to cloning and organ transplants, in which human clones are forced to donate their organs in an



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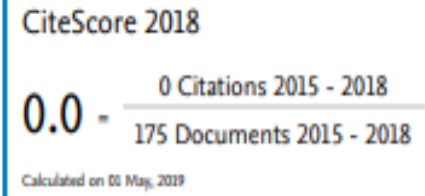
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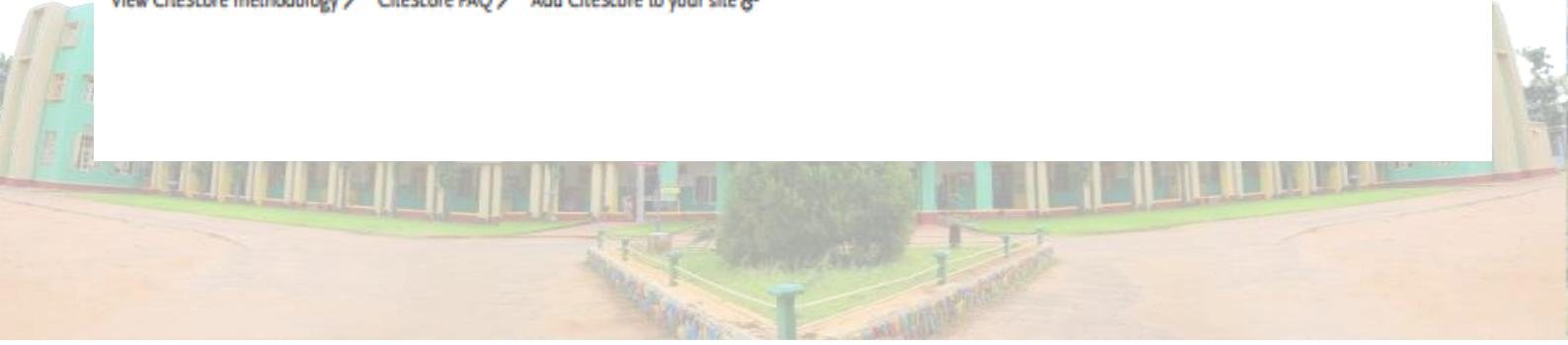
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Empowering the Learners with Second Language Skills through Psychological Aspects

A. Delfino, M. Ilankumaran, **R. Ahilasha**

Abstract— Language plays a vital role in human civilization. The importance of foreign language is stressed in educational field. In the field of foreign language acquisition, cognitive function is given priority. Psychological perspective is the theoretical study about cognitive functioning in acquiring the language. This paper focuses on components and skills of language. Memory, psychological problems in attaining the second language skills are discussed. In learning second language skills, the L2LNs play the prominent role. Listening is preliminary to all other skills. Reading is a complex mechanism of decoding the messages in print. Speaking is natural expression in language, which is not always consciously regulated. Speaking implies, speaking with appropriateness in the social context. Writing is the most difficult and demanding of skills. Listening and speaking are considered to be the receptive skills and speaking and writing are the productive skills. For second language learners, all the skills are necessary in proportion of learner's requirement. The learner of second language needs to give more attention on language skills as well as the components of the language. Phonology, Lexis, grammar and pragmatics are also needed to accomplishing the communicative competence. The correct direction may help the learners to get success in their goal. The teachers have to play the main role in language acquisition, because the learners get motivated by them. The teacher can follow some techniques to improve the communicative competence of the students. Some of the techniques are discussed in this paper. This paper also brings out the importance of language skills and the need of components of language to overcome the barriers in acquiring the second language.

Keywords— Language, Psychological Aspects, Language Skills, Listening, Speaking, Reading, Writing, Second Language Acquisition, Communicative Competence, Components of Language.

I. INTRODUCTION

In this globalization, English language is given more importance. It opens the door of opportunities in all the fields. The instructor of second language is concentrating more on developing the communicative capability of the learners. The goal of second language skills is to develop the communicative competence of the students. The students are encouraged to practice the foreign language in their academic field. In learning the second language, listening and speaking skills can be taught at the beginning, but the students may begin to read and write in the target language.

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A. Delfino, Research Scholar in English, Nisara Islam Centre for Higher Education, Kamaracud, Thiruvananthapuram, India. (e-mail: delfinodelfino@gmail.com)

M. Ilankumaran, Professor of English, Nisara Islam Centre for Higher Education, Kamaracud, Thiruvananthapuram, India. (e-mail: mihankumaran@yahoo.com)

R. Ahilasha, Assistant Professor of English, Holy Cross College (Autonomous), Nagercoil, Thiruvananthapuram, India. (e-mail: ahilasharaj@yaho.com)

This may lead to be failed in acquiring the target language. The learner needs to develop the conscious and unconscious knowledge of language skills. In the act of communication grammar, vocabulary and culture of the language are organised. The learner needs to concentrate more on language skills to attain communicative competence.

II. LANGUAGE

Language is permeating the thoughts and influence with other. It is used as means of understanding the society. English language is one of the dominated languages in all over the world. English language has been considered to be an inter or intra language with in a speech community, though it is a foreign language. English is the entryway of the knowledge in all spheres of life. English Language is considered to be the medium of communication, because the administrators, scientist, doctors, lawyers and engineers cannot utter even a single sentence without using an English word. Fluency and accuracy is very much needed to attain the communicative competence.

III. PSYCHOLOGICAL ASPECTS OF SECOND LANGUAGE SKILLS

The Learners acquire a second language with the help of existing knowledge of the native language. Stephen Krashen says that "language acquisition does not require extensive use of conscious grammatical rules and does not require tedious drill". Second language means learning a new language and not the language of a native speaker. Acquiring a new language creates positive attitudes, improves analytical skills and also improves in learning a new culture. Second language acquisition helps an individual in international travel, business, technology and marketing, etc. It improves listening skills and memory power. Language is an important element and there are varied factors that influence the second language learning. The learner's language faculty in the second language plays a prominent role in determining the communicative competence. In acquiring the second language skills, the learner should be boosted with cognitive aspects like aptitude, motivation, personality, cognitive style, learning strategies, background of learning, social environment, etc. These are the main factors behind in second language acquisition. The components of language and second language skills play a prominent role in acquiring the language.



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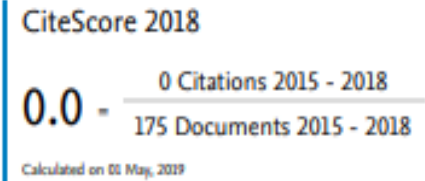
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Neurolinguistic Factors in English Language Learning: A Cognitive based Study

S. Sajna Bevi, R. Abilasha, M. Han Kumaran

Abstract— Language is an important aspect of human for communication. It is the most effective way of communication and considered to be a remarkable achievement in human's life. English language plays an important role in the present society and as a status of the world. The demand of English Language has developed in all the countries and it has emerged as a good communication language. Speaking skill is an essential part of English language learning. When a new language is learned, learners usually face lack of confidence, anxiety, nervousness and apprehension. Psychological factors make a huge difference to learning to speak a language. This article 'Psychological Factors Affecting English Language Learning: A Neurolinguistic Perspective' aims at emphasizing the importance of factors which affect the language learning. Psychological factor is one of the greatest obstacles and it distorts the learner's perception. Neurolinguistic factor deals with a study of human mind and relation between the languages. Neurolinguistic Programming is an approach to communication and personal development. It is also regarded as an excellent method for second language learning which supports learners to achieve perfection in their performance. It brings out the control of constricted feelings and thoughts by using mind techniques, like visualization. It helps to improve the mental status about the hesitation of learners. Psychological factors are caused by the feeling of making mistakes, lack of self-esteem and anxiety about a situation. The purpose of the study is to find out some possible solutions dealing with the causes and effects by Neurolinguistic Programming and help learners to overcome lack of confidence and anxiety over learning language.

I. INTRODUCTION

Communication comes out with exchanging thoughts, feelings and emotions through interaction. Language stands as a platform for communication. It assists to exchange and explore ideas from another. It is one of the most remarkable as well as constituent characteristics of man. It provides a space for revealing ideas about great varieties of concepts. There are so many varieties of language throughout the world.

Every language explores its tradition and culture and helps to unlock the knowledge of human through fine interaction. It is a universal thing and one of the greatest necessities of human life. It shapes social interactions and makes every human unique. Culture and society are closely related by the language and it links individuals and the outside world and thereby helping to sculpt out an individual from infancy. With the help of language, children come to know more about the world as it stands as a fundamental element of civilization. Man could not have developed but

for language. Language alone differentiates humans from the animals.

II. ENGLISH LANGUAGE AND LANGUAGE TEACHING

English is one of the most influential languages in the world. In different countries, it is spoken as the first language and in India it is considered the second language. It has different forms like British English, Canadian English, American English etc. These are all dialects which mean it differs in the way of speaking. In India, English is used not only for the purpose of communicating with the outside world but also used for inter-state and intra-state communication. It stands as conservationists among Indians who speak different languages. English is vital in the field of education, legal and finance.

English language is spread all over the world and it is the base for education. Owing to its popularity, English is used as a second language in India having a teaching pattern. Due to its development and progress, different teaching methods have been included to teach English effectively. English language teaching has many changes from time to time. It is taught for the development of language skills. In older days, it was taught through black boards, audio tapes, etc. After the growth of technology, several applications are implemented to influence both the learners and the teachers.

III. CHALLENGES IN LEARNING ENGLISH AS A SECOND LANGUAGE

There are many reasons challenging English language teaching in India. The reasons are systemic faults ranging from vague syllabus, outdated methodologies to wrong assessment pattern. There are also practical challenges like large classroom size, lack of expert language educators, etc. Among all these reasons, the learners face psychological challenges for learning a new language. These, in particular, cause variances amongst individual language learners. The factors that impact individual learners are Motivation, Attitude, Aptitude, Age and Personality. Anxiety and poor motivation prevent the learners from learning and acquiring the language skills. Neurolinguistic Programming can help to resolve these challenges.

IV. PSYCHOLOGICAL FACTORS AFFECTING LANGUAGE LEARNING

Psychological aspects are the factors that formulate, inspire, and promote learning in different ways. Language skill is deeply controlled by mental process.

Revised Manuscript Received on May 15, 2019.

S. Sajna Bevi, Assistant Professor of English, Noida Islam College of Arts and Science, Kanpur, India.

R. Abilasha, Assistant Professor of English, Holy Cross College (Autonomous), Nagpur, India. (e-mail: abilashar@yaho.com)

M. Han Kumaran, Professor of English, Noida Islam Centre for Higher Education, Kanpur, India. (e-mail: mhanumasa@yahoo.com)

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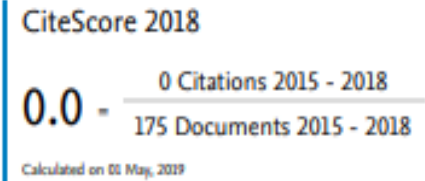
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After the detailed peer-review process, final approval of the article, and the submission of the required documents, the article will be



Teaching Activities Enhance Speaking Skills A Study based on Transitional Students in Tamil Nadu

K. Jeya Gowri, M. Ilankumaran, **R. Abilasha**

Abstract— The current paper displays the failure of traditional methods used in the English language classrooms which are purely teacher-centred and do not allow the students to be competent in English. It is because, in the teacher-centred classrooms, the students remain as mute spectators. They cannot be communicative in the classroom. Indeed, this condition has to be reconstructed and lifted through various teaching strategies. Learner-centred classroom has to be adopted for the efficient and effective communication of the students. This paper tries to convey the factors associated with the environment of English language teaching situation in higher secondary schools. The education policy has been developed among the schools but the teaching and learning strategies remain the same in typical classroom teaching. The eminence of language education in schools and colleges in the current era shows a dreadful picture. The proficiency of the teachers in English language and the exposure to the materials and language are the main concern in English language learning as well as teaching. This article uncovers the utility of executing the methodology of language teaching through various tasks or activities for the higher secondary and higher education students in the classroom. This paper analyses the concept in regard to the English language learners in transition with reference to the activity based language teaching in the classroom environment.

Keywords— Competence, Learner-centred, Classroom Environment, Activity Based Language Teaching, Teacher-centred, Higher Secondary Students, Transition, Methodology of Language Teaching.

I. INTRODUCTION

English plays a major role in educational system and in the country. It is the administration or official language, and made as a mandatory subject in schools as well as colleges. The demand for English as the medium of instruction made to bring it as a subject even from schools. The styles and strategies of language teaching and learning are the significant elements that help the students to determine and enhance their language learning skill. In learning a subject or a new language, the pupils prefer various learning style and approach such as video, audio and analytic types. The important thing is to encourage the students, by creating awareness among them regarding the significance of English and then gradually helping the students to attain their goal. The basic objective should be to make the students independent. It is up to the teacher to make the students realize that gaining competence in

English shall hold the master-key to success. This article gives an account of the problems faced by the students during the higher secondary and college education regarding language learning.

English Language Teaching in Tamilnadu promotes at every level of education. In Tamilnadu, the practice of English language teaching is largely based on the Grammar-Translation Method. This method uses mother tongue to teach or explain grammar on the focus of structural pattern of the language (Nunan, 1988). It is certain that, English language teaching in Tamilnadu has not benefitted or developed from the Grammar-Translation Method, which is one of the traditional and oldest methods. In the aspect of language acquisition, the curriculum or syllabus have to scrutinize the effective learning approach to be adopted in the classroom. In second language teaching and learning, the speaking skill has an important role for creating an impact to develop the skills. According to Chaney, speaking is "the process of building and sharing meaning through the use of verbal and non-verbal symbols, in a variety of contexts" (Chaney, 1998, p. 13). The prominence of learning English has been underestimated in a way that, teaching to speak is taught only through repetition of dialogues or by rote memorization. Teaching speaking skills is considered to be important because it develops the students' communication skills and makes them prepare to be confident in facing personal as well as social circumstances. The language education is about the basic language acquisition, the summaries of the learners and the environment of learning takes place in language teaching-learning. Thus, the paper exposes the inconsistent conditions of the language curriculum which place these second language learners in a poor situation.

II. TRANSITIONAL STUDENTS

Transition is the state of change from one place to another. The students encounter transition, through the change of location, area or place, or by the change or transfer from school to college or university. In schools, there are different students who have undergone various conditions regarding language learning. Students who learn the subjects through vernacular medium, learn English language by rote memorization, even the school teachers support memorizing the language for studying it rather than learning. The other students, who learn the subjects through English medium of education, doing the same for scoring good marks.

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K. Jeya Gowri, Research Scholar in English, Noorul Islam Centre for Higher Education, Kumarcovil, Thuckalay, Tamilnadu, India.
(e-mail: jgowri427@gmail.com)

M. Ilankumaran, Professor of English, Noorul Islam Centre for Higher Education, Kumarcovil, Thuckalay, Tamilnadu, India.
(e-mail: mikumaran@yahoo.com)

R. Abilasha, Assistant Professor of English, Holy Cross College of Arts and Science (Autonomous), Nagercoil, Tamilnadu, India.
(e-mail: abilasharajan@yahoo.com)



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Freedom of Speech and Expression in Militant-Affected Areas

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Madhubala Sheokumar Shukla, Haider Ali

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Longing for love in Shashi Dehpande's *The Dark Holds No Terrors*

J. Jeya Bibi

I M.A English Literature

Holy Cross College (Autonomous)

Nagercoil

&

J.Maria Prabina Sackaria

Assistant Professor

Holy Cross College(Autonomous),

Nagercoil

ABSTRACT:

The present paper entitled the theme 'Longing for Love in Shashi Dehpande's *The Dark Holds No Terrors* expresses the grief and pain of a character named 'Saritha' who is totally neglected by her parents and by her husband. She longs for love from her childhood life itself but she repeatedly gets rejection in her life. Love is the means of emotions and feelings but in this novel Shashi Deshpande clearly supports for a women who not get clear identity, hates by their own neighbours, dominated by men, and also by the society. The main character 'Saritha' is a doctor who feels like insane because there is no one to give love, care and affection to her. As a doctor she gives advice to her patience but no one to comfort her.

Key Words: Male domination, loss of freedom, sexual harassment, unhappy life.

Shashi Deshpande has given the themes like male domination, loss of freedom, sexual harassment and unhappiest lives of women in many of her novels and short stories. In this novel



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Freedom of Speech and Expression in Militant-Affected Areas

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Supernatural Elements in *When the River Sleeps*

Arline Nikila Juli.A

I. MA. English Literature

Holycross College(Autonomous),

Nagercoil

Elza Therese Levin

Assistant Professor

HolyCross College(Autonomous)

Nagercoil,

Tamil Nadu,India.

Abstract:

Easterine Kire is a poet and author who currently lives in Northern Norway. The majority of her writings are based in the lived realities of the people in Nagaland in north-east India. In *When the River Sleeps*, It is full of witchcraft, heart stones, seers and forest spirits. Kire's narration highlights the supernatural and gothic elements presented in the novel. It discusses the existence of the sprits and beautiful girls and also as the stone heart. Nature is presented as a place of retreat and sanctuary and it becomes almost like a character in the novel as it helps Vilie overcome the fear of not just people but also spirits.

Key Words:

Forest spirits, witchcraft, heart stones, seer.

The supernatural includes all that cannot be explained by science or the laws of nature, including things characteristic of or relating to ghosts, gods, or other supernatural beings, or to things beyond nature. Concepts in the supernatural domain are closely related to



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THINK INDIA (Quarterly Journal)

ISSN:0971-1260
Vol-22-Issue-4-October-December-2019

The true love in Chetan Bhagat's *Half Girlfriend*

T. Lincy Mary,

I M.A. English Literature,

Holy Cross College (Autonomus),

Nagercoil.

Under the guidance of

Nemesha,

Assistant Professor of English,

Holy Cross College (Autonomus)

Nagercoil.

Abstract:

Chetan Bhagat is an Indian author, Columnist, screen writer, television and motivational speaker. The main theme in this novel *Half Girlfriend* is a love story of Madhav Jha, a Bihari boy and Riya Somani a high society Delhi girl. The book also describes Madhav Jha's love for his mother land. He wants to do something for the school his mother is running in Dumraon, a backward area of Bihar eighty five kilometers from Patna. But meanwhile, he has to go through much struggle to achieve both love of Riya Somani and the development of his mother's school. True love is where one loves the person very true and sincere.

Madhav Jha falls in loves with a rich and Beautiful Delhi girl, RiyaSomani. Madhav Jha and Riya Somani are good basketball players. They both get admission through sports quota in St. Stephen's College, as his English was really bad. Madhav Jha and Riya Somani become close friends due to their interaction in the basketball court. Madhav Jha wants to make Riya as his



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Meaning of Life and Death in John Green's *The Fault In Our Stars*

M.Heatherfing

I M.A English Literature

Holy Cross College (Autonomous)

Nagercoil

&

K.Mihi Nancy

Assistant Professor

Holy Cross College(Autonomous),

Nagercoil

Abstract:

The present paper is an attempt to analyse a deeper insight of love, life, death, friendship and literature. *The Fault In Our Stars* is written by the famous American author John Green. This young adult fiction serves as a basis for search, scientific techniques, love, life and death. John green highly uses his imaginative power in his work. John Green's *The Fault In Our Stars* tells about a couple who suffers from cancer. The major character in the novel is seventeen years old teenager named Hazel Grace Lancaster. She suffers from thyroid cancer. Later on in the narration, she meets a boy named Augustus Waters, who suffer from cancer too. They fall in love and enjoy some great time together but at the end Augustus died. Green shows how Augustus and Hazel struggle to live a meaningful life before death. Green's fascinating thought makes Hazel to find the truth of life and he also shows the human life clearly with many sorrows and pain.

Key Words: Meaningful life, death and love.

Death is a part of life, and it is natural that authors and poets write about death. The word death brings different feelings to the mind of the reader. Most of them are scared about death. In literature death is tragic. The novel *The Fault in Our Stars* deals with the life of two



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A Feministic Reading of Nikki Giovanni's 'Woman'

J.Vigneshwari,

III B.A. English Literature,

Holy Cross College (Autonomus),

Nagercoil.

Under the guidance of

C. Christal Jani,

Assistant Professor of English,

Holy Cross College (Autonomus)

Nagercoil.

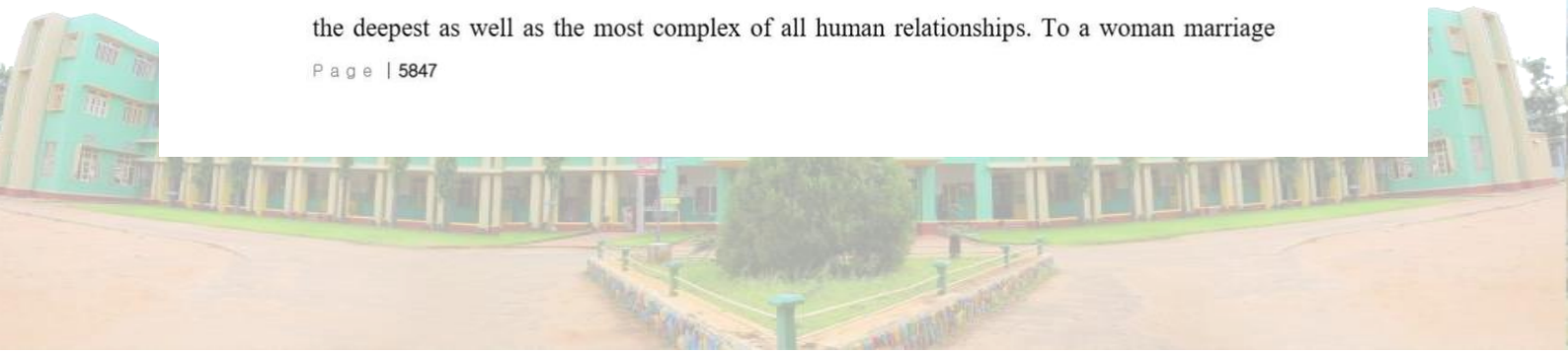
Abstract:

Yolande Cornelia Nikki Giovanni Jr. is an American poet and writer. She is considered as the "Poet of Black Revolution". Her common themes include race, gender and other cultural issues. She uses lots of metaphor which is her unique style of writing. The poem "Woman" by Nikki Giovanni is about a woman who searches for an identity. She describes the journey of a woman. She searches for a true identity and freedom, but her husband denies to give her. The main ideas in this presentation include Marriage, Feminism, Culture, Dreams and Hopes etc. The poet Nikki Giovanni, who perfectly explains the pathetic nature of women and also the older traditions. She points the minute and small wishes of all the women through the poem which includes caring, secured and independent life from her life partner.

Keywords: Marriage, Feminism, Culture, Dreams and hopes.

A Feministic Reading of Nikki Giovanni's 'Woman'.

The institution of marriage is the central feature of all forms of human society. It is the deepest as well as the most complex of all human relationships. To a woman marriage



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THINK INDIA (Quarterly Journal)

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Vol-22-Issue-4-October-December-2019

Truths and facts behind the Myth: A Critical Analysis on Ashwin Sanghi's *The Krishna*

Key

Vijaya KalyanI. K

I MA English Literature

Holy Cross College (autonomus)

Nagercoil

Under the guidance of

C. Christal Jani,

Assistant Professor of English,

Holy Cross college (autonomus)

Nagercoil

ABSTRACT:

The present paper is an attempt to bring out the truths and facts behind the myth in the novel *The Krishna Key* by Ashwin Sanghi. Ashwin Sanghi, an Indian writer whose writings mainly focuses on the thriller genre. All his books and writings are based on mythological and theological themes. One of the India's best selling conspiracy fictional writers and is regarded as an author of the new era of retelling Indian history or mythology in a contemporary context. His writing style was something very peculiar and unique with the usage of words, symbols and images.

KEY WORDS: History, Myth, Facts and Discoveries.

“Within infinite myth lies an eternal truth. Who sees it all? Varuna has built a thousand eyes India, a hundred you and I, only two”.



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Marriage and social status from the novel Emma

Nazreen Zeenath.G.S

I MA . English Literature

Holy Cross College (autonomus)

Nagercoil

Under the guidance of

C.Nesavathy

Assistant Professor of English,

Holy Cross college(autonomus)

Nagercoil

Abstract

Emma talks about the importance of nuptials for indigent women. This novel was written by Jane Austen who was born on 1775, and she was also an unmarried girl who was born for a clergy man. Some of her important works are *Pride and Prejudice*, *Mansfield*. This novel talks about the concept of marriage which has been a backbone for indigent women and also a profession for wealthy women. Here Jane Austen has portrayed Emma to be the protagonist of the novel who works as a matchmaker; according to her a wealthy women need not have a partner because for her which she has gained might be a perfect life partner to care her. This topic announces how a marriage is needed for women besides her social status.

Keywords: Marriage; Social status; Father; Lover; Husband.

As such a man needs backbone to walk he needs a support to survive which is mentioned to be nuptial; and this nuptial can be gained by a celebration named marriage. Before marriage each and every one might have crossed many characters in which there could be a



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THINK INDIA (Quarterly Journal)

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Reflection on Culture and Ethos: Study of Kamala Markandaya's *Bombay Tiger*

Raena

I MA . English Literature

Holy Cross College (autonomus)

Nagercoil

Under the guidance of

Dr. R.Eveline Shindya

Assistant Professor of English,

Holy Cross college(autonomus)

Nagercoil

Abstract:

Literature is a reflection of the society. In other words it reflects the culture of the society. As literature is the reflection of society it reflects the culture and tradition of people. Kamala Markandaya describes the culture, tradition, lifestyle, practice, and mode and manner of Indians through her novel *Bombay Tiger*. The prepared presentation elucidates the culture and tradition of Indians. The aim of this work is to analyze the tradition and culture of Indian society, which speaks and as the identity of every individual.

Bombay Tiger by kamala Markandaya is about the business man Ganguli. Ganguli is the big industrialist in metropolitan city Bombay. He is very ambitious, though he is very ambitious he fails as a father and husband, he did not take care of his wife and his girl child Chandralekha. He fails in his life as a family man. Ganguli at the end of the novel turns into the man of good deeds and opens the Mahatma Gandhi hospital for poor.

Culture is the identity of group of people living in a specific place. As culture is the identity of every individual kamala Markandaya own Indian culture reflects in this novel. Culture



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ONE DAY NATIONAL SEMINAR

ON

DISABILITY, REPRESENTATION AND LITERATURE

held on 03 October 2019 and Organised by P.G. & Research Department
of English

S. T. HINDU COLLEGE, NAGERCOIL-2, Tamilnadu, India

**Innocence Sustained in the Name of Being Victimized with
Special Reference to Mahesh Dattani's *Thirty Days in September***

Nesavathy. C

Research Scholar, Reg. No. 18223154012005

Email: sindhudhas16@gmail.com

Department of English, ST.Hindu College, Nagercoil – 629002,
Tamil Nadu, India.

Dr. Karthika Premkumar Assistant Professor, Department of English, ST.Hindu College,
Nagercoil – 629002, Tamil Nadu, India.

Affiliated to Manonmaniam Sundaranar University, Abishekapatti, Tirumelveli - 627012
karthikapremkumar@ymail.com

Abstract

Every child born in this world remains us of goodness that must be nurtured and treasured. The way in which they are molded during their childhood reflects in their every stage of living. But in most of the times they undergo molestation and child abuse, especially the girl child, by their close relatives and also by the unknown strangers. Child abuse holds a different perspective when compared to all other crime. It is because the victim is found guilty every time and hides every emotional torment within them where as the culprit enjoys all his fanciful desires without being caught. The frequency of this crime reflects in the nature of the victim were they are unable to lead a peaceful life as they are very much wounded by the incidents that remind them of that awkward moments of darkness enfolding the pain and the scar. In this play *Thirty Days in September*, Mahesh Dattani has brought out a new perspective where the victim stands firm in bringing out the issue to be dealt with the culprit. This also remarks on a reformation where the victim is able to analyze the situation and understand the social dilemma not by simply accepting it in the name of innocence instead to repel with an identity protesting to put forth the truth. This paper aims at bringing out the preventive measures, the strict laws to be enforced and the treatment to the victim in case of being affected.

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Starvation in Mulk Raj Anand's Novel *Coolie*

V.Gowshika

I.M.A English Literature

HolyCross College(Autonomous)

Nagercoil,Tamil Nadu,India.

Dr. R.Eveline Shindya

Assistant Professor

HolyCross College(Autonomous)

Nagercoil,Tamil Nadu,India.

Abstract:

Starvation may be defined as the state of not having enough food to eat, especially when this caused by illness or death. Starvation also can be defined as the feelings caused by a need to eat. Starvation is one of the major problems which are faced by many peoples of various countries due to this many children are dying everyday. Starvation does not affect any person by seeing whether he is friend or enemy.The present paper deals with the central character Munoo. This shows how Munoo suffers from no food to eat while the other children go to school. He sacrifices his life from his childhood to come out from starvation. Finally starvation makes a way to Munoo's death.

Key words: Starvation, sufferings, causes, disappointments

Mulk Raj Anand was an Indian writer in English, notable for his depiction of the lives of the poorer castes in traditional Indian society. One of the pioneers of Indo-Anglian fiction, he, together with R. K. Narayan, Ahmad Ali and Raja Rao, was one of the first India-based writers in English to gain an international readership. Anand is admired for his novels and short stories,

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THINK INDIA (Quarterly Journal)

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Women Characters in *The Thousand Faces of Night*

Madhumitha.A.V

III B.A. English Literature,

Holy Cross College (Autonomous),

Nagercoil.

Under the guidance of

M.Maria Helen Janoba

Assistant Professor of English,

Holy Cross College (Autonomous)

Nagercoil.

Abstract:

Githa Hariharan's novel *The Thousand Faces of Night* represents a variety of female characters, mythological as well. The novel also exposes the real consequences whichever the women are facing in the male-dominated society. The characters in the novel wanted to be an ideal woman but the society around them is expecting to be mothers, wives and daughters-in-law. The complete novel is about the sufferings, alienation and humiliation of the female characters. To mix up the traditional structure, Githa has also brought the mythological ideas and also she tries to articulate the image of women, with the help of epics such as Ramayana and Mahabharata and Sanskrit stories. The stories of the characters-Devi, Sita, Mayamma has been narrated by linking them to mythological characters. The novel has a theme of grandmother's styled art of storytelling technique that is 'story within a story' technique.

The novel is woven around three generations of women- Devi, Sita, Mayamma. Despite the generations, background and education, Indian women is made to fall on the trap of the old customs and traditions. Devi, the protagonist of the novel, a young educated girl with an American experience married Mahesh because she does not want

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Freedom of Speech and Expression in Militant-Affected Areas

1-14

Madhubala Sheokumar Shukla, Haider Ali

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Changes Towards an Upkeep of Water an Ecological Study of Robert Frost's "Going for Water"

Dhanya. M.S

I M.A. English Literature,

Holy Cross College (Autonomus),

Nagercoil.

Under the guidance of

M.Maria Helen Janoba

Assistant Professor of English,

Holy Cross College (Autonomus)

Nagercoil.

ABSTRACT

This poem "Going for Water" by Robert Frost was written as an apology to his wife to remind her of a moment they shared as children. The poem describes brook named 'Haya' rock that was found near Frost's home and was first published in *A Boy's Well* in 1913. This poem recites an adventurous journey of a few children who travel across field to fetch water from a brook. This paper entitled Changes towards an Upkeep of Water an Ecological Study of Robert Frost's "Going for Water" attempts to evaluate the implication of water and a vigorous environment for the future generation. Besides eco criticism, it also insists the indifferent nature of individuals that lead to water scarcity, poverty, hunger then educational and health disputes and mainly to depraved ecosystem. It also illustrates environmental concerns and the subject of nature towards the extinction of water aridity.

Key Words: Water, Environment, Scarcity, Atmosphere, Biosphere, Drought, Conservation, Aridity, Poverty, Ecology.



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The image of Death as a character in Markus Zusak's *The Book Thief*.

Maria Fastina. X

I M.A. English Literature,
Holy Cross College (Autonomus),
Nagercoil.

Under the guidance of

M.Maria Helen Janoba

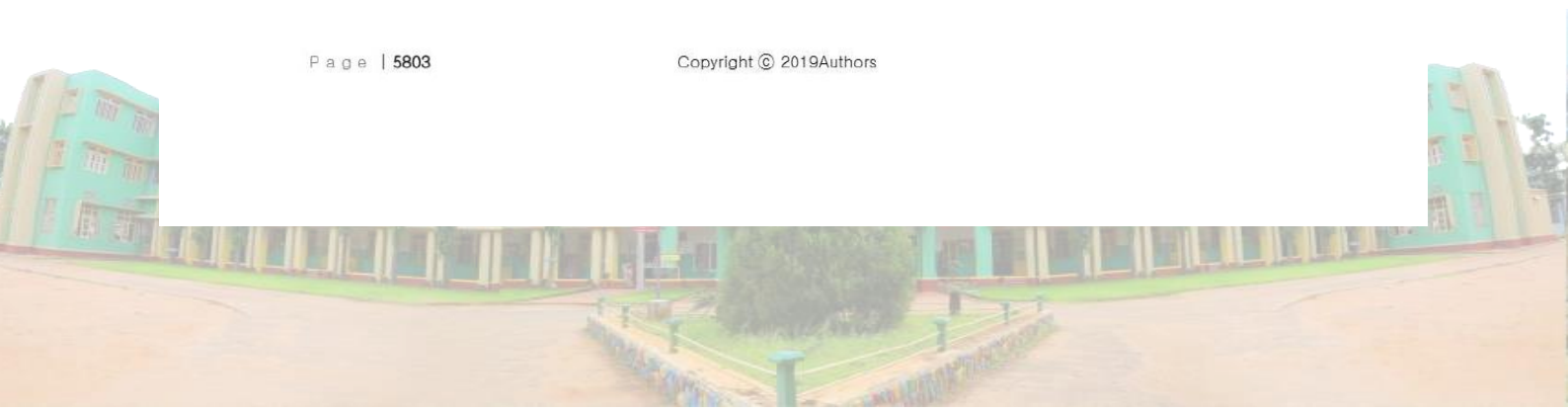
Assistant Professor of English,
Holy Cross College (Autonomus)
Nagercoil.

Abstract:

This research paper shows how “Death” plays an important role in literature. To bring this to light, the paper deals with Markus Zusak’s *The Book Thief*. As a child Zusak gets inspired by the stories which were narrated by his parents, both his mother and father who lived in the period of World War II. His mother told him stories about the Munich bombings. His father is inspired by the character of Hans Hubermann who is a commercial painter during World War II. Markus Zusak characters are dynamic. Each main character goes through tremendous growth and change. At the end of each character they realize who they are and how important they are.

Keywords: War, Death, Humanity, Colourful soul.

Markus Zusak needed a narrator who can provide him a clear insight of Worlds War II outside of Himmel Street. Zusak found Death as an only character who can give a real impact to the reader about the World War II. Death is inevitable and that is the most fearing aspect of his



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THINK INDIA (Quarterly Journal)

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Vol-22-Issue-4-October-December-2019

Psychological perception in the novel “The Road by Cormac McCarthy”

C.Nimitha

I. MA. English Literature

Holycross College(Autonomous),

Nagercoil

J.M.Gracelin Lydia

Assistant Professor

HolyCross College(Autonomous)

Nagercoil,

Tamil Nadu,India

Abstract:

Cormac McCarthy’s *The Road* brings out the bond and hope of the man and the boy. The man plays a vital role in the novel as he stimulates hope within the boy to survive in life. Dreams and memories play a vital role in this concept. In the world nobody will forget each ones childhood memory. The novel describes the journey to south west undertaken by a young boy and his father after an unnamed catastrophic event that has struck the world. McCarthy’s feeling coincide with the writer Twain who explains the creations of God such as oceans, mountains. In the world nobody will forget each one’s childhood memories. This paper presents *The Road* deals with Memory and the past, in various information.

Keywords :

Memory, Violence, Love, Isolation, Good and Evil, Versions of Reality.

Cormac McCarthy is an American novelist, playwright, and screenwriter. He has written ten novels, spanning the Southern Gothic, Western, and post-apocalyptic genres.



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THINK INDIA (Quarterly Journal)

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A thematic study of Role of Women in Chinua Achebe's "Anthills of the Savannah"

P.Benisha

I MA English

Holy Cross College (Autonomous)

Nagercoil.

J.Alisha Josephine

Assistant Professor of English,

Holy Cross College (Autonomous)

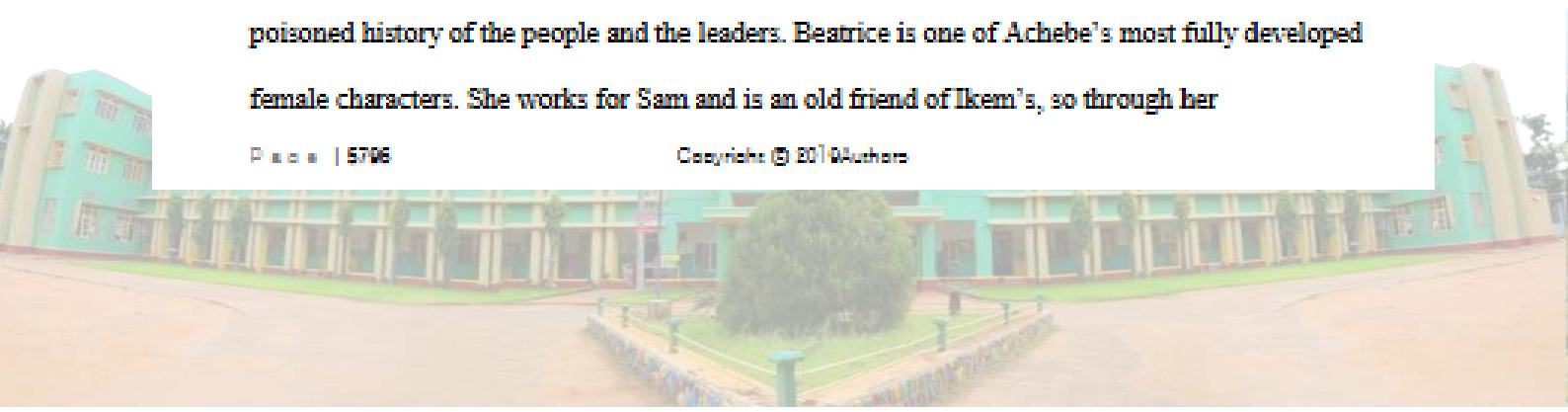
Nagercoil.

Abstract:

The present paper entitled Chinua Achebe's *Anthills of the Savannah*: A study of Role of Women deals with the political role of women in the Igbo society, particularly with Achebe's female protagonist Beatrice who is anxious to know about the pitiable condition of the people of Kangan and steps forward to change the situation. The novel *Anthills of the Savannah* (1987), which was shortlisted for the Booker Prize. "When the British came to Igbo land, for instance, at the beginning of the twentieth century, and defeated the men in pitched battles in different places, and setup their administrations, the men surrendered. And it was the women who led the first revolt" – Chinua Achebe.

Key Words: Education, Strength of women, Struggles, Identity.

Women in traditional societies were more suppressed than in Western industrialized societies. Beatrice, Achebe's female protagonist is anxious to know about the poisoned history of the people and the leaders. Beatrice is one of Achebe's most fully developed female characters. She works for Sam and is an old friend of Ikem's, so through her



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THINK INDIA (Quarterly Journal)

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A Thematic Study of Racism and Identity Crisis in Paul Beatty's *The Sellout*

M.Dafnia Joscy

I M.A English Literature

Holycross College(Autonomous), Nagercoil

&

J.Santhiya

Assistant Professor

Holycross College(Autonomous), Nagercoil

jano.helen@gmail.com

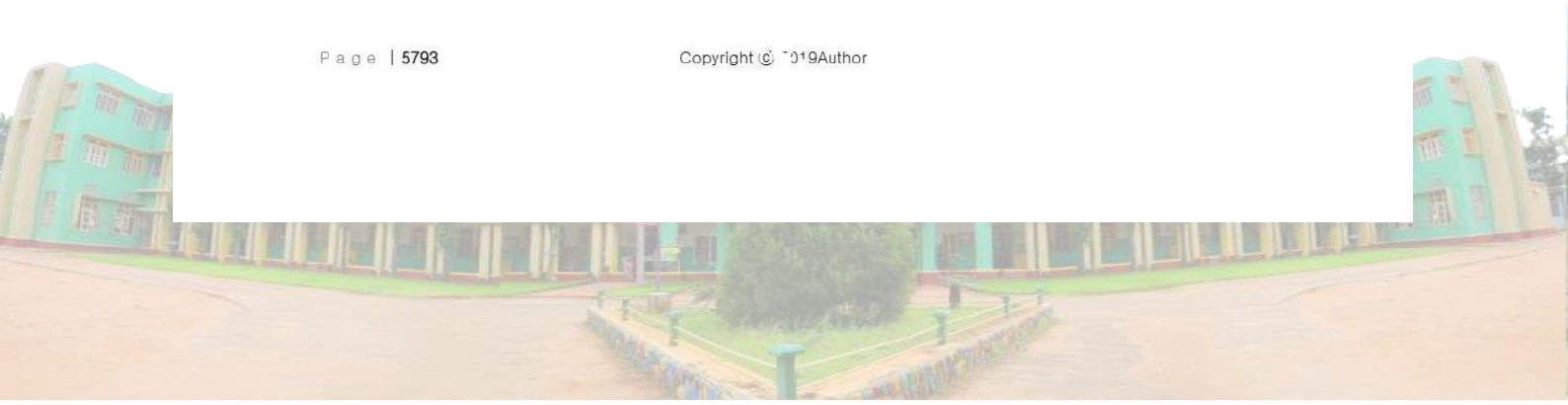
ABSTRACT:

The present paper entitled A Thematic Study of Racism and Identity Crisis in Paul Beatty's *The Sellout* is to bring out the racial problems faced by the black people living in the United States portrayed in this 2016 Man Booker Prize Winning novel. Beatty is the first American to have won the Man Booker Prize. The novel takes place around Los Angeles, California and concerns a protagonist who grows artisanal marijuana and Watermelon. The novel *The Sellout* has been noted for its postmodern treatment of African –American gender and sexuality in addition to racism. The forefathers of Africans who eventually become slaves in the United States lived in a society that is filled with inequalities, social, economic psychological and culture. Beatty has stated his motivation for writing this novel.

KEY WORDS:

Racism, Slavery, Social equality, Sense of home, segregation, Migration.

The novel is set in Dickens, the city where the author lives which is secretly wiped off from the map triggering identity crisis in its residents. The novel begins with the narrator at the Supreme Court. His opening lines: "this may be hard to believe, coming from a





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sankaritamil@gmail.com

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govindarajan.bdu@gmail.com

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karthikeyan251973@gmail.com

அமரிய செபஸ்தியான்
வித்யா பல்கலைக்கழகம், வேலூர்.
maryasepatin.a@vit.ac.in

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kpauline@bhu.edu.in

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anikeerthigan@gmail.com

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mparam98@gmail.com

R.F.அரூஸ்

ராபா இன்டர்நேஷனல் கம்ப்ளக்ஸ், சிறீ லங்கா.
rappa.arooz@gmail.com



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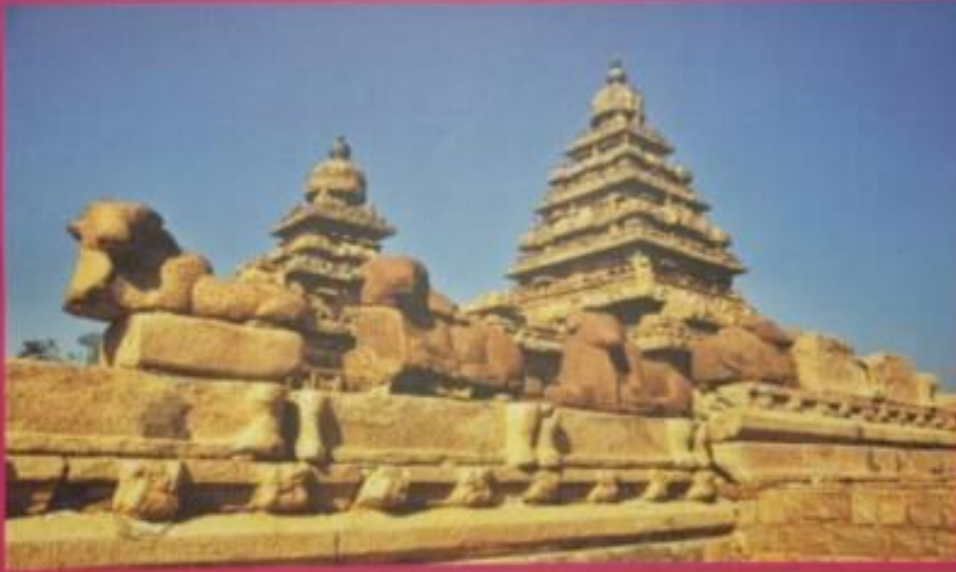
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maryasebastian.a@vit.ac.in

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tamilchandre@gmail.com

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Bishop Heber College, Trichy.
kpauline@bhu.edu.in

Dr.T.K Anuradha

Trinity College For Women, Namakkal.
amikeerthigan@gmail.com

Dr.Paramasivam Muthuswamy

Malaysia University, Malaysia.
mpasam98@gmail.com

R.F.Arooz

Raipa International Campus, Sri Lanka
rpa.aarooz@gmail.com

பதிப்பாசிரியர்

நல் நடராசன்

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Erode.
kongunadupublications@gmail.com

ஆசிரியர்

முனைவர் பா.சங்கரேஸ்வரி

மதுரை காமராஜ் பல்கலைக்கழகம், மதுரை
sankaritamil@gmail.com

ஆசிரியர் குழு

முனைவர் அ.கொயித்தராத்ன
மாநில அரசு பல்கலைக்கழகம், திருச்சிரப்பள்ளி
govindarajan.bdu@gmail.com

முனைவர் சி.கார்த்திகேயன்
தமிழ்நாடு திறந்த கல்வி பல்கலைக்கழகம், சென்னை
karthikeyan251973@gmail.com

அமரிய செபஸ்தியான

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maryasebastian.a@vit.ac.in

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அரசு கலைக்கல்லூரி, கங்காமலை
tamilchandre@gmail.com

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பிஷப் ஹீபர் கல்லூரி, திருச்சி
kpauline@bhu.edu.in

முனைவர் தா.க.அனுராத்தா

திரிணி கல்லூரி, நாமக்கல்
amikeerthigan@gmail.com

முனைவர் பரமசிவம் முத்துசாமி

மலேசியா பல்கலைக்கழகம், மலேசியா
mpasam98@gmail.com

R.F.அரூஸ்

ராஹ் அரூஸ், இலங்கை, சிரிபா
rpa.aarooz@gmail.com

புத்தமிழ் இலக்கியங்களில் நாட்டார் நம்பிக்கை கூறுகள்

*முனைவர் சா.டெம்சியம், உதவி பேராசிரியர், தமிழ்த்துறை (கயநிதி), திருச்சி ஜனகலட்சுமி நாகாலேயி

முன்னுரை

புத்தமிழ் இலக்கியங்களான பாடும் தொகையும் சராயிரம் ஆண்டுகளுக்கு முற்பட்ட மானுட சமுதாயத்தின் அனைத்துக் கருவிகளையும் பிரதிபலிக்கும் கண்ணாடியாகத் திகழ்கின்றன. பண்டித தமிழர்களின் அறநெறிகள், பின்பற்றி வளமுற்ற நெறிமுறைகள், நம்பிக்கைகள் ஆகிய எல்லாவற்றையும் சங்கப் பாடல்கள் புலப்படுத்துகின்றன. நாட்டார் வழக்காறு என்பது மக்களின் பழக்கவழக்கங்கள் மற்றும் நம்பிக்கைகள் சார்ந்து ஆதாரப் பிறப்பு முதல் இறப்பு வரை மனிதன் பலவீதமான நம்பிக்கைகளை கொண்டிருப்பதைக் காண்கிறோம். இந்நம்பிக்கைகள் காலங்காலமாக ஒரு தலைமுறையினிடமிருந்து மற்றொரு தலைமுறையினருக்குப் பரவி வருகின்றன. இன்று நாம் கண்டபடிக்கும் நம்பிக்கைகள் ஆதிக்காததொடே நம் தமிழ்ச்சமூகம் பின்பற்றி வரும் நம்பிக்கைகள் என்பதனை விளக்க புத்தமிழ் இலக்கியங்கள் சான்றுகளாகத் திகழ்கின்றன.

விருத்தின் பற்றிய நம்பிக்கை

காகம் கரைத்தால் விருத்தின் வருவீர் என்ற நம்பிக்கை இன்று பலரிடம் காணப்படுகிறது. காகம் கரைவது நன்விசித்தம் என்பதற்கு காகங்கை பாடினவர் நச்சென்னைபார் பாடிய குறுந்தொகைப் பாடல்களை உதாரணமாகக் கூறலாம். தலைவனைப் பிரிவுற்ற தலைவி மிகவும் வருந்துகிறார். அந்நேரத்தில் காகம் கரைகிறது. பிரிவுற்ற தலைவனும் வந்து சேர்ந்தான். தலைவனின் வருவினைக் கண்ட தலைவி மகிழ்வுற்றார். தலைவியின் பெருந்தோளை நெகிழச் செய்து அவனின் துன்பத்தைப் போக்குதலுக்கு விருத்தின் (தலைவன்) வருவினைக் கரைந்து கூறிய காகங்கைக்குத் தலைவி உணவு கொடுத்தான் என்று தோழி கூறுவதாக இப்பாடல் அமைந்துள்ளது.

“..... என் தோழி

பெருத்தோள் நெகிழ்த்த செல்லற்கு

விந்துவரக் கரைந்த காககையது பல்லியே”(குறு:210)

விருத்தின் வருவினைக் காகங்கை கரைந்து கூறும் என்பதனை இவ்வுரிகள் எடுத்தியம்புகின்றன. தெய்வத்தை வழிபட்டு இடப்படும் உணவு பல் உணவு ஆகும். தலைவிக்கு நன்விசித்தமாகக் கரைந்த காகங்கைக்குக் கொடுக்கப்படும் உணவினை 'பல்' என குறிப்பிடுகிறார் தோழி. உணவு உண்ட பின்னர் விருத்தின் வாழ்வு இலையை உள்பக்கம் மடித்தால் மீண்டும் வந்து விருந்து உண்ணும் பக்கியம் கிட்டும் என்றும் விருத்தினிக்குச் சேவல்குரிய உணவு கொடுக்கக் கூடாது என்ற நம்பிக்கையும் புத்தமிழ்விடையே காணப்பட்டது.

பல்லி சத்தம் பற்றிய நம்பிக்கை

விரிச்சி என்பது நற்சொல் கேட்டல் ஆகும். பண்டித தமிழர் போடுகிற சேல்லும் முன விரிச்சி கேட்டே செல்வீர். ஏதோ ஒரு செயலைப் பற்றி என்னிக் கொண்டிருக்கும் போதோ அல்லது வேறு ஒருவருடன் பேசிக் கொண்டிருக்கும் போதோ பல்லிச் சத்தம் கேட்டால் 'சத்தியம்', 'உண்மை' பல்லி சத்தம் போடுகிறது என்று பெரியவர்கள் கூறுவதுண்டு. இப்பல்லி சத்தம் சங்ககால தலைவிக்கு விரிச்சியாக அமைந்ததை புத்தமிழ் இலக்கியங்கள் பல இடங்களில் சுட்டிக்காட்டுகின்றன.

பாங்குப் பல்லி பறந்தோறும் பரவி

வினைமுற்றர் மீண்டான் தலைமகள். விரைந்து செல்லும் தோளை மேலும் விரைவுபடுத்துவதற்காக தோப்பாகனிடம், தன் நெஞ்சம் தனக்கு முன்பே தலைவிபைக் கூட தன் தலைவிபாற் சென்று விட்டது என்று நயமாகக் சொல்லுவதாய் இப்பாலைத்திணைப் பாடல் அமைந்துள்ளது. இதனை,

“தானொடு மீடைத்த கற்பின், வாற்றுதல்,

அம்மீம் கிளவிக் குறுமகள்

மெய்தோள் பெறு நகைஇச் சென்றென் நெஞ்சே? (அகம்: 9-25-26)

என்று தலைவியின் பால் சென்று நெஞ்சினைக் கூறிவிட்டு,

“பல் மாண்

ஒங்கிய நல்இல் ஒருசீறா



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சேலம்.

தமிழ்த்துறை

இணைந்து நடத்தும்

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Nall Natarajan

Kongunadu Publications (India) Private Limited,
Erode,
kongunadupublications@gmail.com

EDITOR

Dr. B.Sankareswari

Madurai Kamaraj University, Madurai,
sankaritamil@gmail.com

EDITORIAL AND ADVISORY BOARD

Dr.A.Govindarajan

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karthikeyan251975@gmail.com

A.Mariya Sebasthyan

VIT University, Vellore,
maryasepstin.a@vit.ac.in

Dr.R.Chandrasekaran

Government Arts & Science College, Kangeyam,
tamilchanderu@gmail.com

Dr. K.Paulin Preetha Jebaselvi

Bishop Heber College, Trichy,
kpauline@bhu.edu.in

Dr.T.K Anuradha

Trinity College For Women, Namakkal,
anikeerthigan@gmail.com

Dr.Paramasivam Muthuswamy

Malaysia University, Malaysia,
mparam98@gmail.com

R.F.Arooz

Raapa International Campus, Sri Lanka
ruapa.arooz@gmail.com

பதிப்பாசிரியர்

நல் நடராசன்

கொங்குநாடு பப்ளிகேஷன்ஸ் (இந்தியா) பிரைவட்,
எரோடு.

kongunadupublications@gmail.com

ஆசிரியர்

முனைவர் பா.சங்கரேஸ்வரி

மதுரை காமராஜ் பல்கலைக்கழகம், மதுரை
sankaritamil@gmail.com

ஆசிரியர் குழு

முனைவர் அ.கொவிந்தராத்ன

பாரதிதாசன் பல்கலைக்கழகம், திருச்சிராப்பள்ளி
govindarajan.bdu@gmail.com

முனைவர் சி.கார்த்திகேயன்

தமிழ்நாடு திறந்த பல்கலைக்கழகம், சென்னை
karthikeyan251975@gmail.com

அ.மரியா செபஸ்தியான

வி.ஐ.டி. பல்கலைக்கழகம், வேலூர்
maryasepstin.a@vit.ac.in

முனைவர் ர.சந்திரசேகரன்

கங்கையம்மாள் கல்விக்கல்வி
tamilchanderu@gmail.com

முனைவர் க.பாலின பிரீதா ஜெபசெல்வி

பிஷப் ஹீபர் கல்விக்கல்வி கல்லூரி
kpauline@bhu.edu.in

முனைவர் தா.க.அனுராதா

திரினிடி கல்விக்கல்வி கல்லூரி, நாமக்கல்
anikeerthigan@gmail.com

முனைவர் பரமசிவம் முத்துசுவாமி

மலேசியா பல்கலைக்கழகம், மலேசியா
mparam98@gmail.com

R.F. அரூஸ்

ராபா இன்டர்நேஷனல் கம்ப்ஸ், சிறீ லங்கா
ruapa.arooz@gmail.com

அகநானூற்றில் வேளான்மை

*முனைவர் **சா.டெய்சிடாய்**, உதவிப்பேராசிரியர், தமிழ்த்துறை (கயந்தி), திருச்சிதுறை கல்லூரி, நாகர்கோவில்.

முன்னுரை

ஒரு நாட்டின் முன்னேற்றத்திற்கு அடிப்படை ஆதாரமாகத் திகழ்வது வேளான்மை. வேளான்மை செயல்பட இருந்தால் தான் அந்நாட்டின் பொருளாதார வளர்ச்சி மெய்யடும். இவ்வகையில் மனிதன் வளம் பெற வேண்டி செய்யும் அனைத்துத் தொழில்களும் தேடல்வகும் விவசாயத்தை மையமாகக் கொண்டுள்ளன. இதனை,

"சுழன்றும் ஏர்ப்பின்னது உலகம் அதனால்

உழந்தும் உழவே தலை"

என்றும் குறள்வழி சுட்டிக்காட்டியுள்ளார் வள்ளுவர். தமிழில் வேளான்மை-யைக் குறிக்கப் பல சொற்கள் உள்ளன. 'உழவு' என்னும் சொல் உழைத்து வேலை செய்வதைக் குறிக்கிறது. பண்டைத் தமிழர் மேற்கொண்ட தொழில்களில் வேளான்மை சிறப்பானதாகக் கருதப்பட்டது. பாண்டிய நாட்டு மக்கள் வேளான்மையிலும் வணிகத்திலும் சிறப்பு பெற்றிருந்ததை மதுரைக்காஞ்சி குறிப்பிடுகிறது. பாண்டிய மன்னர் தன் ஒரு கையில் கலப்பையையும் மற்றொரு கையில் சமன் செய்து சீதாக்கும் கோலையும் ஏந்தி மக்களைக் காத்தான் என்று சிலப்பதிகாரம் குறிப்பிடுகிறது. திருவள்ளூர் வேளான்மையின் பெருமைகளையும் உழவர்கள் ஆற்றும் பணிகளையும், வேளான்மை முறைகளையும் விவரிக்க திருக்குறளில் ஒரு அதிகாரத்தை ஒதுக்கியிருப்பது வேளான்மையின் பெருமைகளை உலகமேயச் செய்கிறது.

வேளான்மை

தமிழ் இலக்கியங்கள் வேளான், உழவர் ஆகியவள் வாழ்வு நெறி பற்றிப் பல பாடல்களில் குறிப்பிடுகின்றன. 'உழவர் உலகத்தார்க்கு ஆணிவே' என்பர். உழவர்கள் வாழ்தம் கலப்பையையே நம்பி இருந்தனர். அறுவடை செய்யப்பட்ட நெல் மலைமேல் குவித்து வைக்கப்பட்டிருந்தன என்று நற்றிணைக் குறிப்பிடுகிறது.

"மலை கண்டின் நிலையுணர் நிவப்பின்

பெரு நெற் பல்கட்டு எருடை உழவ"

(குற. 60)

வளமான மண்ணுக்கு அளவான நீர் இன்றியமையாததாகும். "ஆடிப்பட்டம் தேடி விதை" என்ற பழமொழிக்கு ஏற்ப உழவர்கள் பெருமழை பெய்த விடியற்காலத்தில் தம் நிலத்தைக் கலப்பைகளால் மண் கீழ் மேலாக மாறுப்படி உழுதனர். மீண்டும் மழை பொழியவே மழையால் நிலம் எங்கும் நன்கு ஏரம் படித்ததனால் மறுபடியும் உழுதனர். உழுத சாலில் அவர்கள் விதைத்த விதைகள் ஒன்றுக்குப் பலவாக முளைத்து நூற்றுக்கணக்காக நின்றன. இதனை அகநானூற்றில்



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தமிழ்த்துறை

இணைந்து நடத்தும்

1

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karthikeyan251975@gmail.com

அ.மரியா செபஸ்தியான

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kpauline@bhu.edu.in

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திரினிடி பெண்கள் கல்லூரி, நாமக்கல்
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mparam98@gmail.com

R.F. அரூஸ்

ராபா இன்டர்நேஷனல் கம்ப்ஸ், சிறீ லங்கா
ruapa.arooz@gmail.com

பன்முகநோக்கில் இணையமும் தமிழும்

சுபிரீமோஸ், உதவிப்பேராசிரியர், தமிழ்த்துறை (சுயநிதி), திருச்சிலுவை கல்லூரி (தன்னாட்சி),
கரையூர்.

சுருக்கம்

உலகம் தன் பரப்பில் இருந்துச் சுருங்கி இன்று ஒரு கிராமமாக மாறிவிட்டது. காரணம் தகவல் தொழில்நுட்ப வளர்ச்சி. இத்துறையின் பெரும்பகுதி வளர்ச்சிக்குக் காரணம் வருவது கணினித்துறை என்பது கண்கூடான உண்மை. அறிவியல் தொழில்நுட்பத்தின் கணிவித்துறையும் தகவல் தொழில்நுட்பமும் இணைந்து மனித சமுதாயத்திற்குத் தந்துள்ள வழிமுறைதான் இணையம். அதன் விரிவும், அது ஏற்படுத்தியுள்ள வாய்ப்புகளும் வடக்காதவை. உலகம் முழுவதும் ஏறக்குறைய முப்பது ஆண்டுகளுக்கு முன்பே தயாரிட்ட இணையத்தின் செயல்பாடு அண்மையில்தான் பல்வேறு வழிகளில் பெரும் துடிக்கும் வளர்ச்சியையும் கண்டுள்ளது. இதன் அடிப்படையில் இணையத்தில் தமிழ் மொழியின் பண்பு ஆராய ஏற்றக் காலம் இதுவேயாகும்.

தமிழ்மொழி காலத்திற்கு ஏற்ற வகையில் தன்னை வளர்த்துக் கொண்டே வருகிறது. இன்றைய சரியான தகவல் ஊடகமாக விளங்குவது இணையம் ஆகும். இணையப்பயன்பாட்டில் தமிழ்மொழி தகவல் பரிமாற்றம் உலக அளவில் இரண்டாம் இடத்தில் இருப்பதாக புள்ளி விபரங்கள் உகின்றன.

புலகம்

இணையத்தில் தமிழ் பற்றி அறிந்து கொள்ள, தமிழ்ச் செய்திகளை அறிந்து கொள்ள பற்பல வகைகள் உள்ளன. தமிழில் உள்ள நூல்களை இணையத்தில் வாசிக்க முடியும். தமிழ் நூல்களை பலகணக மாற்றி இணையத்தின் வழியாக எழுப்பியன்கொள்ளும்படிச் செய்யப்பட்டு வருகிறது. இவற்றை மின்நூலகம், இணைய நூலகம் அழைக்கின்றனர்.

இணையப் பலகலைக்கழகம்

தமிழ் இணையப் பலகலைக்கழகத்தில் இணைய நூலகம் மிகவும் பயன்பாடு மிக்கது. பலநூறு நூல்கள் சேமிக்கப் பெற்றுள்ளன. நூல்களை அடுத்த அடுத்த பக்கங்களுக்குச் சென்றுப் போல இணையப் பக்கங்களைப் புரட்டி நூல்களைப் பார்வையிட முடியும். மேலும் பக்கத்தில் தேடுதல் வசதி உள்ளது. அதாவது தேடுதல் வசதி என்பது சொல் தேடல் மூலம், திருக்குறளில் ஏதாவது ஒரு சொல் எந்தெந்த இடங்களில் பயன்படுத்தப்பட்டுள்ளது என்று அறிய வேண்டுமானால் இத்தளத்திற்குச் சென்று திருக்குறள் பகுதியை அழுத்தி அதன்பின் தேடல் வசதி தேவையான சொல்லை இட்டால் அந்த சொல் பயன்படுத்தப்பட்டுள்ள இடங்கள் அனைத்தும் கிடைக்கும். இப்படியே ஒவ்வொரு நூலிலும் தேடல் வசதி தரப் பெற்றுள்ளது. தற்போது தமிழ் இணையப் பலகலைக்கழகம் என்ற பெயர் உலகத் தமிழ் இணையப் பயிற்சிக் களம் என்பதாக பெயர் மாற்றப்பட்டுள்ளது. இருப்பினும் <http://www.tamilvu.org> என்ற முகவரியில் இத்தளம் இயங்கி வருகிறது.

எலப்ரரி

அடுத்த சென்னை எலப்ரரி என்ற தளம் குறிக்கத்தக்கது ஆகும். சிறுகதைகள், நாவல்கள் போன்றவைப் படிப்பதற்கு இந்தத் தளம் உதவுகின்றது. குறிப்பாக சங்க இலக்கியம், சங்கம் போன்ற இலக்கியங்கள் போன்றனவும் இத்தளத்தில் கிடைக்கின்றன. கம்பராமாயணம் முழுவதும் கிடைக்கின்றது.

விக்கிப்பீடியா

தமிழ் விக்கிப்பீடியா என்ற இணையதளம் தமிழின் கட்டற்ற கலைக் களஞ்சியமாக உள்ளது. தமிழில் உள்ள தகவல்களைப் பெற இத்தளம் மிக முக்கியமானதாகும். மேலும் இதனால் இணைய யார் வேண்டுமானாலும் செய்யலாம். யார் வேண்டுமானாலும் திருத்தலாம். அதற்கான விதிகள் படி நுழைய வேண்டும்.

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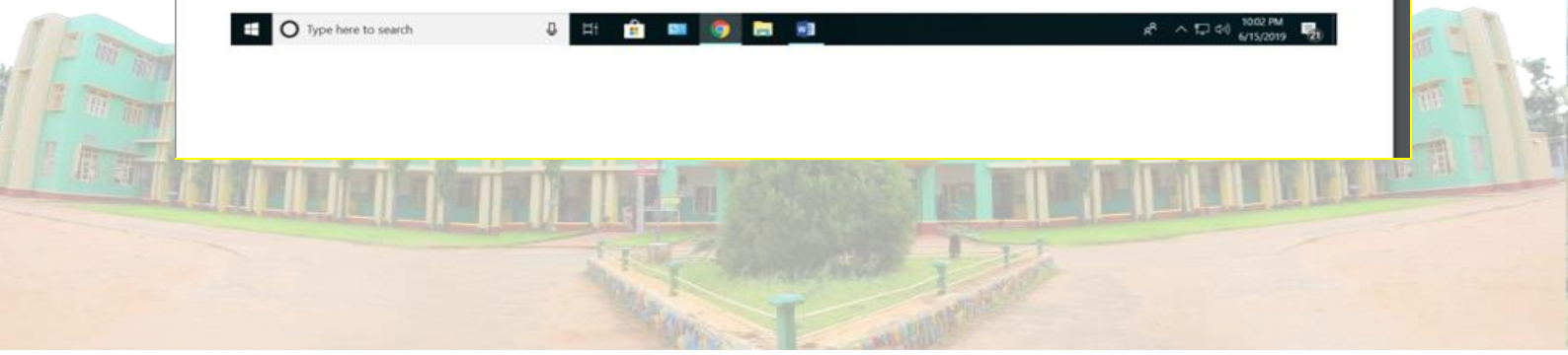
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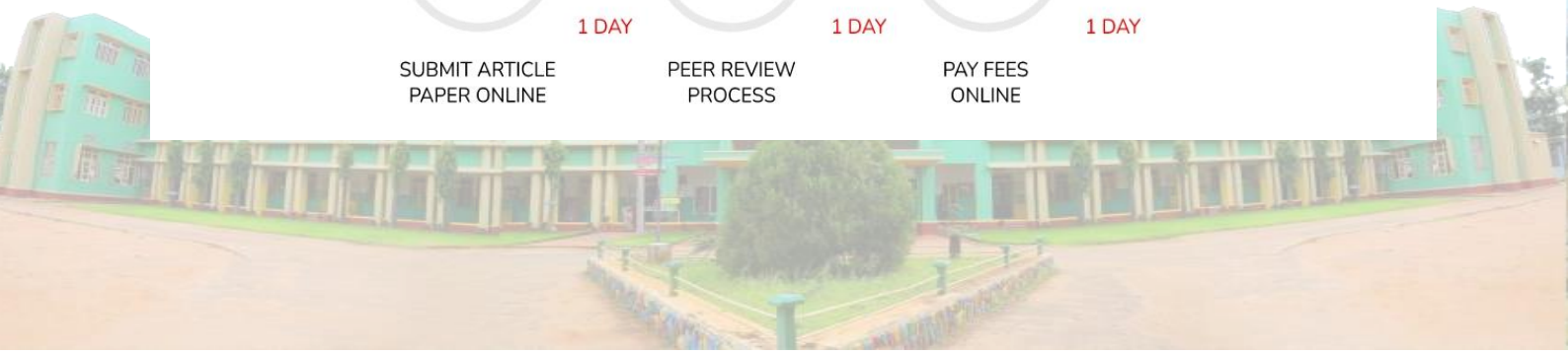
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Holy Cross college(autonomous),Nagercoil

Manonmaniam sundharanar university,Tirunelveli

Abstract

Immunization is a way of protecting the human body against infectious diseases through vaccination. immunization prepares our bodies to fight against diseases in case we come into contact with them in future.

Babies are born with some natural immunity which they get from their mothers and through breast-feeding. This gradually wears off as the baby's own immune system starts to develop. Immunization gives a child extra protection against illnesses which can kill. While it is best to follow the ideal immunization schedule. On no account should the baby be denied vaccinations, even if she is brought late for them. but every attempt must be made to complete full immunization, before the age of 1year.

Introduction

A Vaccine is a biological preparation that provides immunity to a particular disease. A Vaccine typically contains an agent that resemble a disease causing micro organism and is often made from weakened or killed forms of the microbe, its toxins or one of its surface proteins. The agent stimulates the body's immune system to recognize the agent as a threat, destroy it, and to further recognize and destroy and of the microorganisms associated future. Vaccination is a proven tool for controlling and eliminating life threatening infectious diseases and is estimated to avert between 2 and 3 million deaths each year. Vaccines stimulate the body's own immune system to protect the person against subsequent infection or disease.

Vaccines can be,

- ♣ Prophylactic eg: to prevent or ameliorate that effects of a future infection by any natural or wild pathogen
- ♣ Therapeutic eg: Vaccines against cancers are also being investigated.

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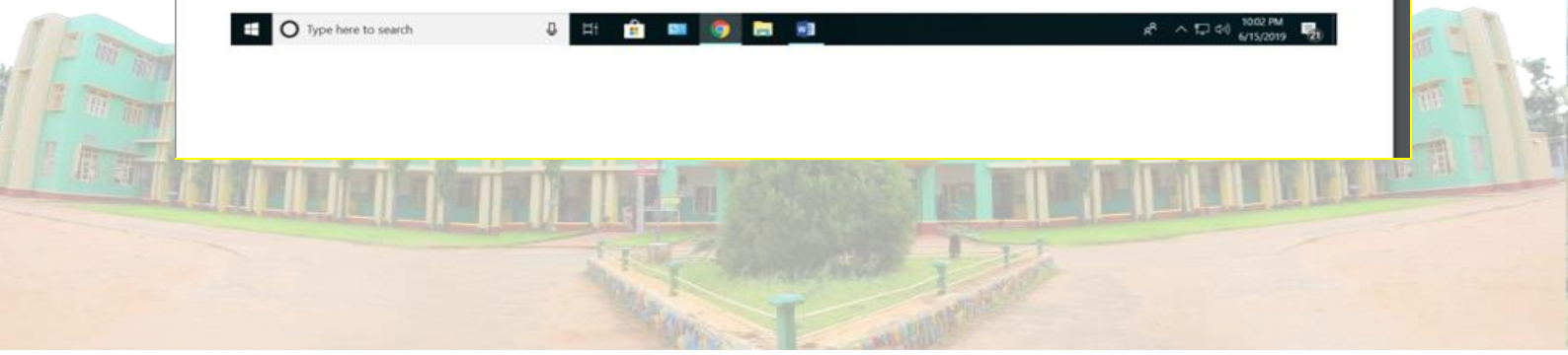
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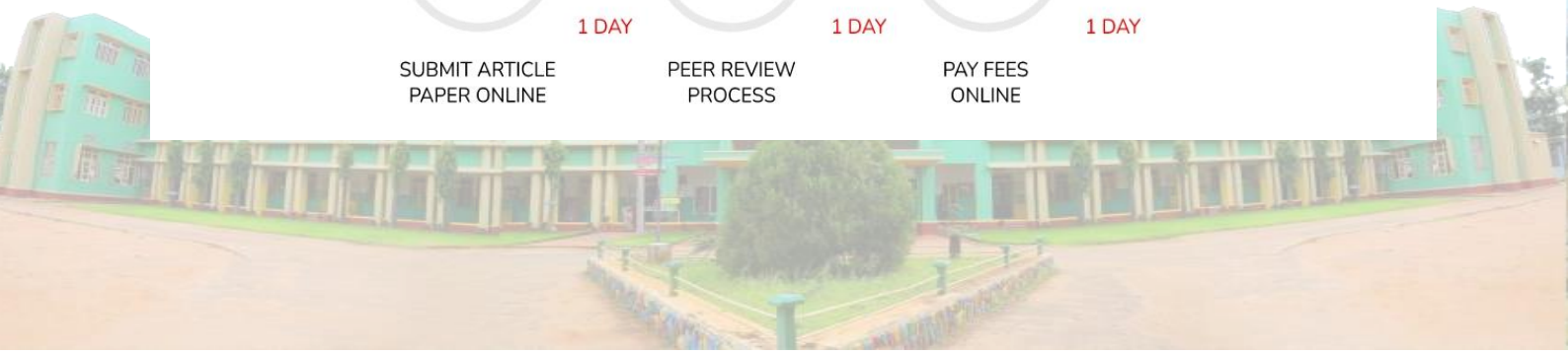
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OCCUPATIONAL HEALTH AND SAFETY MEASURES IN SMALL SCALE INDUSTRIES –A STUDY

S.CHITHRA LEKHA

REG NO:19113041032003

Ph.D Research scholar, Holy cross college(Autonomous) ,nagercoil

Guide **Dr.S.Jeni Sanjna** Assistant professor,Department of Economics

Holy cross college(Autonomous),nagercoil

Manonmaiam sundharanar university ,thirunelveli

Abstract

Occupational safety and health is the concept with the principle aim of protecting the employee of any industry from harm when in the line of duty. Its objective is to curtail work related injuries, sickness and deaths by proposing standards that seek to enforce workplace safety and health. Occupational health and safety is a multi-disciplinary area concerned with protecting the safety, health and welfare of people engaged in work or employment. The aim of all occupational health and safety programs is to provide a safe work environment. On the other hand, it may also protect co-workers, family members, employers, customers, supplies, nearby communities, and other members of the public who are impacted by the workplace environment. It may involve interactions among many subject areas, including occupational medicine, occupational or industrial hygiene, public health, safety engineering chemistry, health physics etc.

*The definition of occupational health was adopted jointly by the international labour organization (ILO) and the WHO at its first session in 1950 and revised at its twelfth session in 1995. The definition reads;“occupational health should aim at: the promotion and maintenance of the highest degree of physical, mental and social well-being of workers in all occupations; the prevention amongst workers of departures from health caused by their working conditions; the protection of workers in their employment from risks resulting from factors adverse to health , the placing and maintenance of the workers in an occupational environment adapted to his physiological and psychological capabilities and to summarize, the adaptation of work to man to his job”. In other words, occupational health and safety encompasses the **social, mental and physical well-being of workers.***

Introduction

National Government should develop the requisite legal administrative and financial mechanisms to provide all workplaces with occupational safety and health services that will effectively identify prevent and control exposures to potential hazards and promote the enhancement and maintenance of optimal levels.



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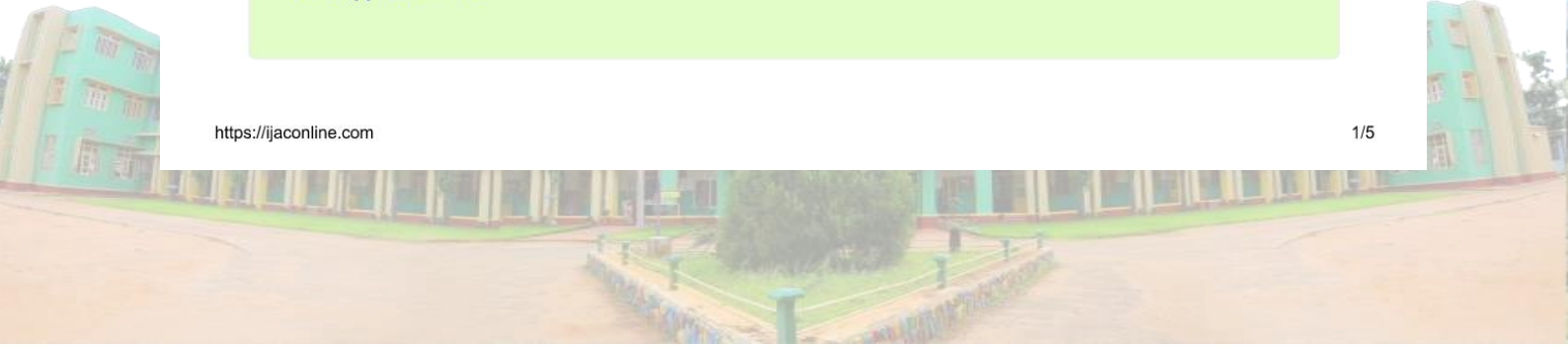
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**AN ECONOMIC STUDY ON HEALTH CONDITIONS OF CAMPHOR
COMPANY WORKERS IN MELASOORANKUDI VILLAGE,
KANYAKUMARI DISTRICT**

Dr. S. Vimal Dolli,

Assistant Professor in Economics,
Holy Cross College (Autonomous), Nagercoil

INTRODUCTION

Camphor (*Cinnamomum camphora*) is white, crystalline substance with a strong odour and pungent taste, derived from the wood of camphor laurel and other related trees of laural family. Camphor tree is native to China, India, Mongolia, Japan and Taiwan and a variety of fragrant evergreen tree is grown in Southern United States; especially in Florida. Camphor is obtained through steam distillation, purification and sublimation of wood, twigs and bark of the tree. There are many pharmaceutical applications for camphor such as topical analgesic, antiseptic, antispasmodic, antipruritic, anti-inflammatory, anti-infective, rubefacient, contraceptive mild expectorant, nasal decongestant, cough suppressant, etc. Camphor is easily absorbed through the skin and can also be administered by injection, inhalation and ingestion.

Camphor tree grows natively in China and Japan where it is used for oils and timber. In 1875 camphor tree was introduced into Florida and established in plantations for camphor production, although it was not profitable for growers.

In Florida, camphor tree is able to rapidly displace native trees and infest forests and other natural areas. This invasive species displaces native plants due to its fast growth habit and the ability to produce large amounts of seed. This seed is readily eaten and spread by birds. Nurseries and garden centers sell camphor tree as a popular ornamental plant which aids in its dispersal in landscaped areas. Camphor tree is not on the Federal or State Noxious Weed List; however it is listed as a Category I species on the Florida Exotic Pest Plant Council (FLEPPC) list of invasive species. FLEPPC considers Category I plants invasive exotic species that displace or disrupt native plant communities, alter the ecology of the environment, or hybridize with native species.

Good health is an important development outcome in its own right. Illness brings suffering, and healthier lives are likely to be longer and more fulfilling. These facts alone



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Department of Economics & Research Centre, Holy Cross College (Autonomous), Nagercoil Affiliated to Manonmaniam Sundaranar University, Abishkappatti, Tirunelveli - 627 012, Tamil Nadu, India.

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Income and Expenditure Pattern of Coconut Cultivators in Kanyakumari District – A Study

A. Preetha Kumari

Ph.D. Research Scholar (Reg. No.11675)

*Department of Economics & Research Centre, Holy Cross College (Autonomous), Nagercoil.
Affiliated to Manonmaniam Sundaranar University, Abishekapatti, Tirunelveli – 627 012, Tamil
Nadu, India.*

Dr. S. Jeni Sanjana

Assistant Professor (Research Supervisor)

*Department of Economics & Research Centre, Holy Cross College (Autonomous), Nagercoil.
Affiliated to Manonmaniam Sundaranar University, Abishekapatti, Tirunelveli – 627 012, Tamil
Nadu, India.*

Abstract

Agriculture accounts for nearly one fourth of India's GDP and more importantly about dependent on agriculture and allied activities for their livelihood. Indian agriculture depends on monsoon and as a result, there have been fluctuations in food production over the years. The average size of cultivable land holding is only 1.84 ha and it constitutes nearly 74.5% of total holdings in the country posing a great challenge in enhancing productivity, production with sustainability. In India agriculture is the backbone of Indian economy not only feeds the teeming millions of people but also provides raw materials to the agro industries and earns precious foreign exchange main occupation of a large number of people. The coconut palm is the most useful palm in the world. Coconut palm, eulogized as 'Kalpavriksha' is considered as a valuable gift to the mankind as it is a versatile source of food and drink to millions of people. Coconut is a traditional plantation crop grown in India for the last 30 centuries. The coconut palm is one of the most useful plants. It is grown in more than 80 countries of the world. Indonesia and Philippines are the first and the second largest coconut producing country in the world. India is the third largest coconut producing country having an area of about 1.78 million hectares under the crop. Annual production is about 7562 million nuts with an average of 5295 nuts per hectare. This article shows the Income and Expenditure Pattern of coconut cultivators in Kanyakumari District- A Study.

INTRODUCTION

Agriculture is one of the strongholds of the Indian economy and it accounts for 18.5 percent of the gross domestic product (GDP). Agriculture draws its significance from the fact that it has vital supply and demand links with the manufacturing sector and is a source of livelihood for the rural population of India, and it represents the backbone of rural livelihood security system. In India agriculture is the main occupation of a large number of people. Agriculture depends on soil fertility, climatic conditions, rainfall, irrigation facilities,



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The Role of Women Workers in Unorganised Sector in Kalkulam Taluk

K. Preetha

Ph.D. Research Scholar (Reg. No.11742)

Post-Graduate and Research Centre, Department of Economics, S.T. Hindu College, Nagercoil.
Affiliated to Manonmaniam Sundaranar University, Abishekapatti, Tirunelveli – 627 012, Tamil Nadu, India.

Dr. S. Jeni Sanjana

Assistant Professor (Research Supervisor)

Department of Economics, Holy Cross College, Nagercoil.
Affiliated to Manonmaniam Sundaranar University, Abishekapatti, Tirunelveli – 627 012, Tamil Nadu, India.

Dr. C. A Sham Shankar

Assistant Professor

Post-Graduate and Research Centre, Department of Economics, S.T. Hindu College, Nagercoil.
Affiliated to Manonmaniam Sundaranar University, Abishekapatti, Tirunelveli – 627 012, Tamil Nadu, India.

Abstract

Welfare of women is an integral part of the planning process in our country. Gainful employment of women is identified as a major entry point in promoting their economic condition. The vital role of women in the Indian labour force and their contributions to the national economy have been established beyond doubt. Women are engaged in a wide variety of occupation especially in the unorganised sector. The Government of India could not give gainful occupation to all its people in organised sector. So the unorganised sector plays an important role in reducing pressure of unemployment and poverty. This paper aims at finding the problems faced by the women workers in the unorganised sector in Kalkulam taluk of Kanyakumari district and to suggest remedial measures to overcome such problems.

Keywords: Women Welfare, Women Workers, Unorganised Sector

INTRODUCTION

In India, women's earning always consider as subsidiary income. Man is considered to be the bread-winner. The Indian traditional concept is that, if husband is having a substantially high income, there is no need for women to work. But in reality, many unemployed women are suffering without a penny with them and many have to degrade themselves. This great handicap of women is solved forever, once they start earning. Female work participation not only increase their family income but also bring economic independence among women in the household. The data of the census of India shows that of the bulk of working population 91% belong to unorganised sector. In this 91% workforce women play a vital role.

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PEPPER MARKETING IN KANYAKUMARI DISTRICT

Dr. S. Jeni Sanjana ¹

Abstract

Pepper is popular all over the world, which is used mainly as a food ingredient and as a preservative. Besides, almost all the traditional systems of medicine - Ayurvedic, Homoeopathy, Unnani and Aromatherapy as well as Chinese and African Systems - regularly use pepper in various forms, both as a preventive and cure for an astonishing number of ailments with remarkable success. Pepper is an effective cure for malaria and functions as a mosquito repellent. Pepper could help in relief of cold and cough, reduce fever, function as an analgesic or antiepileptic, help in digestion, serve as an antidote for food poisoning and relieve headaches. The king of spices also has some cosmetic value and if applied as recommended it could help control baldness and hair loss. Marketing of spices assumes most importance in its trade. It is in the hands of several intermediaries in the country. There is normally no government intervention in this trade with regard to marketing procedure or in the maintenance of a reasonable price to the farmers. Farmers dispose of their produce either locally to a village shop, a Co-operative Society or even to dealers in terminal markets. This paper shows the Pepper marketing in Kanyakumari district.

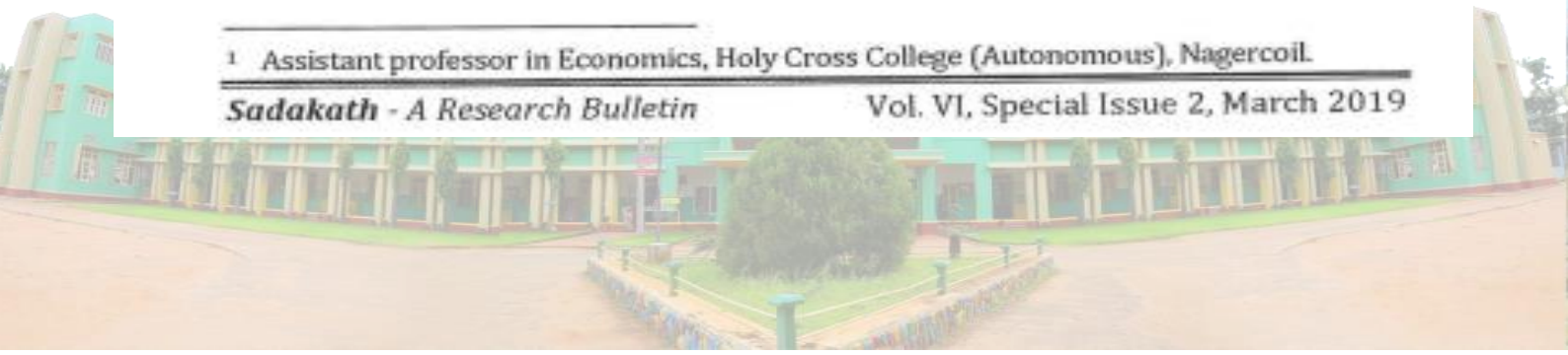
Keywords: Pepper, spices, black gold, Black pepper

Introduction:

Pepper famed as the 'King of Spices' or 'black gold', is a significant foreign exchange earner for India. Since pepper is an export oriented commercial crop, its cultivation heavily depends upon the export performance and the price of the produce. As compared to other major producing countries, productivity of Indian pepper is low. In India, the harvesting period of pepper starts from December and ends by March. Pepper producers and sellers are facing serious problems due to the unfavourable trends in prices. This situation may lead to large scale conversion of area under pepper to its alternative crops and the consequent reduction in export earnings in the coming years. Therefore, as a short-term solution, the Government can fix a minimum support price, to maintain the present area and production levels of pepper. Although Black pepper is the largest export earner its production has been showing an erratic trend with high fluctuation. The low rate of productivity is the major hurdle as the scope for increasing the area under cultivation is limited. The increase in production has therefore to be largely achieved by increasing the productivity and thereby reducing the cost of production.

Marketing of spices assumes most importance in its trade. It is in the hands of several intermediaries in the country. There is normally no government intervention in this trade with regard to marketing procedure

¹ Assistant professor in Economics, Holy Cross College (Autonomous), Nagercoil.



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EFFECTS OF DEMONETISATION IN INDIA

Dr. A. Sameema¹
Abstract

Demonetization is a process of removing or abolishing the values attached to the money or monetary system of any institution or the government bodies in a country or the world. It is executed to replace the old currency with a new one and is necessary whenever there is a need to bring about a change in the national currency of any country. The prime motto of implementing this system is to get rid with the practice of using money for unfair means in the society. So far, many nations have witnessed demonetization of their currency, with India being able to experience it for the third time

Keywords: Demonetization, Hawala, Black Money, Stock Market,

Introduction

Demonetization is a mandatory part of change from one currency to another. Before going through the whole topic, we must have clear understanding of the concept of Demonetization. Demonetization is the process act of changing the unit of currency by changing its legal tender. Demonetization will be resorted when there is a change in the currency of country. The old unit of currency will be replaced by a new currency unit. On 8th November 2016, the Prime Minister of India Narendra Modi made an announcement in a live telecast address to the nation in the evening at 20:15 to demonetize the currency.

In his announcement, he declared that the circulation of all the currencies with the denomination of 500 and 1000 are invalid with effect from the midnight of 8th November 2016. Instead of the old currencies in that denomination new 500 and 2000 banknotes of will be issued. Later both the Governor of the Reserve Bank of India, Urjit Patel and Shaktikanta Das, the Economic Affairs secretary had explained in a press conference that the circulation of ₹ 500 and ₹ 1000 currencies were increased by 76 percent and 109 respectively between 2011 and 2016 and these currencies were used to fund terrorist activities against the security of India.

Due to this the Central Government of India took a decision to eliminate the highly circulating currencies with immediate effect. He also told that the decision to demonetization was taken six months ago, and the printing of new Currencies with the denomination of 500 and 2000 was started six months before. The decision to print new currencies was kept confidential only with top government officials, security agencies and the RBI were aware of the move. But the introduction of 2000 denomination was reported in October 2016 well before through the official announcement of RBI.

¹ Assistant Professor of Economics, Holy Cross College (Autonomous), Nagercoil - 629 004.

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ECONOMIC AND HEALTH PROBLEMS OF AGING POPULATION

Dr. S. Vimal Dollu¹
Abstract

This paper deals with the economic and health issues of aging population. The population of aged people in 1961 was 6.4 percent of total Population, which rose to 7.5 percent in 2001. The share of elderly Population in rural and urban areas are 20.3 percent and 1.97 percent. The quantity of older is probably going to achieve around seventy-seven million by 2001 and 124 million by 2020. Among the issues faced by during the last fifty years, the major identified issue is the lack of economic independence particularly among women. According to the report submitted by Human Development Indicator Survey (HDIS) in 1994-95, seventy-six percent of the women and forty-two percent of the men were taken care of by their family. Some common unhealthy state of older are vital sign, psychological state, internal organ issues, diabetes, joint pains, urinary organ infections, cancer, loss of vision T.B. etc. There are fifteen million people that have a stroke annually. Stroke is that the second leading explanation for death for individuals higher than the age of sixty. The speedy population ageing can essentially bring social modification and economic transformation. Therefore, a holistic approach towards the elderly population will take social, economic and cultural changes which is required to solve the issues relating to the older people. supported the prevailing diversities within the ageing method, it's going to be declared that there's a necessity to pay bigger attention to the increasing awareness on the ageing problems and its socio-economic effects and to market the event of policies and programmes for coping with an ageing society.

Keywords: Cardiovascular, aging population, mental illness, elderly people, Alzheimer's Disease, mental illness

Introduction

We can normally divide the life span of a person into five stages, such as infancy, childhood, adolescent period, adulthood age and old age. In each and every stage a person will face many issues like economic issues, social, political, psychological, physical issues and so on. The problems faced in one stage of life will be different from problem faced another stage of the life. Among all the issues the problems faced by the older people will be peculiar and unique. The elders may find it difficult to face issues due their deterioration of physical health and mental stability due to poor physical condition. Money plays vital role in maintaining both physical and mental health of elders. But the problem will rise in spite the good financial position when there is lack of support from their wards and negligence by their family members.

¹ Assistant Professor, Department of Economics, Holy Cross College (Autonomous), Nagercoil.



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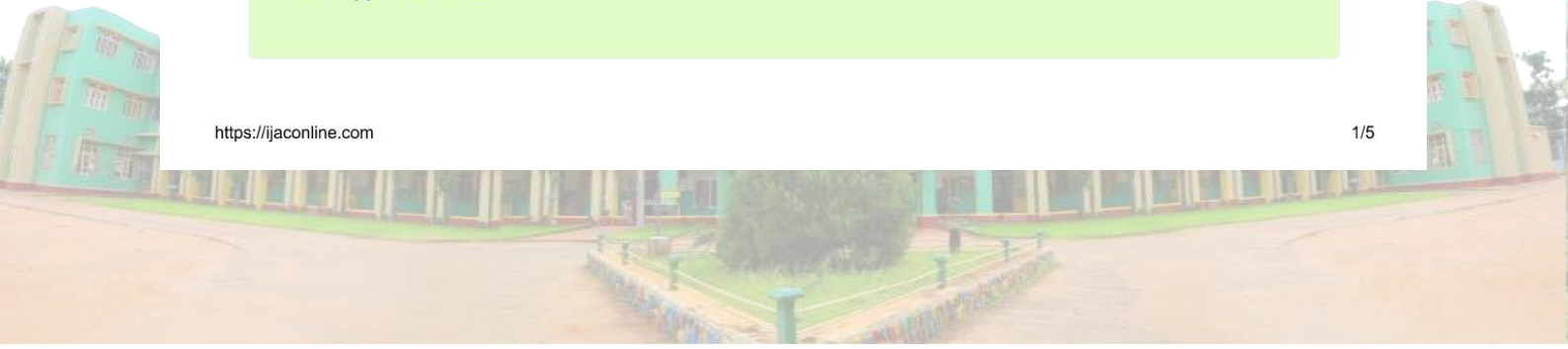
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AN ECONOMIC STUDY ON EMPOWERMENT OF WOMEN THROUGH
EDUCATION AND EMPLOYMENT IN NAGERCOIL OF KANYAKUMARI
DISTRICT

A.SAMEEMA,

Assistant Professor, Department of Economics, Holy Cross College (Autonomous), Nagercoil.

ABSTRACT

Indian women are almost 50% of the Indian population and they directly as well as indirectly contribute to the economic parameters of the nation. Since ages most of their economic contributions have not been accounted and their humble services have been taken for granted. It's high time to recognize the role of women fraternity in the growth of an economy and take necessary steps to involve the rural uneducated females in the growth process simultaneously along with the urban uneducated as well as educated females.

INTRODUCTION

Empowerment has become the key solution to many social problems like high population growth rates, environment degradation, and low status of women. Empowerment is a process by which individuals, groups and communities become able to take control of their circumstances and achieve their goals, thereby being able to work towards maximizing the quality of their lives.

Women and Education

Women education is very important for the proper social and economic growth of the country. Both men and women are like two sides of the coin and run equally like two wheels of the society. So both are important element of the growth and development in the country that requires equal opportunity in the education. If anyone of both goes downside, social progress is not possible.

Women and Employment

Information and Communication technologies make the role of time and distance less distance less significance in organising business and production related activities. As a result of the

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Social Media Advertisements: An Art of Attracting Digital Natives in the 21st Century

J. Jani Mercybai¹ S. Sahayaselvi²

Research Department of Commerce¹, Assistant Professor and Research Supervisor, Department of Commerce Holy Cross College (Autonomous), Nagercoil, Kanyakumari District, Tamil Nadu, India²; Manonmaniam Sundaranar University, Abishekapatti, Tirunelveli, Tamil Nadu, India

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Abstract – Social media advertisements play a vital role in shaping the dreams and helping the consumers in purchasing decision. Hence, the advertisers of social media use advertisements as a weapon to target the audience, specially the youngsters with regard to purchasing decision. Over the past decade the social media ads surmounts and impress good number of digital natives and many of their parents are being digital immigrants, they solely depend upon their sons and daughters to place the order by watching social media advertisements. Hence, the overall objective of the study is to measure the art of attracting digital natives with regard to purchasing decision by watching social media advertisements. The data were collected with the help of a questionnaire and multi random sampling technique was used to represent 125 respondents from two autonomous colleges in Kanyakumari district. The result of the study points out that social media advertisements were positively impacted on youngsters between the age group of 20-21 years. The respondents buy when the ads stimulate, impressive and worthwhile only they buy the products and services. This paper also suggest that advertisers have to be very careful in not giving exaggerated facts and create atmosphere of ease when they watch the ads.

Keywords – Social media advertisements, Purchasing decision, Digital Native.

INTRODUCTION

“Advertising moves people toward goods: Merchandising moves goods towards people” is the quote of an American businessman Morris Lee Hite. Yes, it’s true when a person was attracted by an advertisement he/she automatically moves towards those products and services. The major problem was faced by the users or viewers of advertisement is exaggeration about the product or services. Formerly advertising was narrowed to announcements and its role did not go beyond informing. The arrival of social media has brought several opportunities for information exchange and communication between advertisers and users. It has changed the world in every sphere with its innovative and technological advancements. Studies have shown that advertising on social media has been greatly impacted on young users and it provides more options to connect with marketers. The term digital natives was coined by an American writer and speaker on education Marc Prensky in 2001 [1]. He denotes, those who born after 1980’s are considered as digital natives. They were born with digital technology such as mobile phones, computers and all other digital technologies. Today’s digital natives are more powerful in terms independent, knowledgeable,

quick in decision making and user friendly of electronic gadgets compared to their parents. Advertisements in Social media such as Blogs, LinkedIn, Facebook, Twitter were positively influenced the consumers. They are easily accessing social media through their smart phones and getting information from advertisements displayed on these media. It saves both their time and energy where physical nearness is no longer needed for an exchange to take place. Moreover, it offers more discount and offer which enthruse the youngsters to purchase products and services via online platform. It becomes an effective tool in the hands to youngsters to choose right type of products at the right time and with the right price. By using the popular social sites like Facebook, Twitter, YouTube, Instagram, Pinterest were catching the mind of youngsters and they were pushed forward to purchase the products and services [2], [3]. Other indicates that social media is evident for the credibility of information and reviews [4].

Advertisements in social media were influenced the buying behaviour of youngsters thus they were intended by the advertisements to purchase products [5]. Users were gathering information regarding products from



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**Financial Performance Analysis of Selected Non Banking Financial
Companies – A CAMEL Model**

Sugitha. S.G

Reg.No:19223041062020

Ph.D Research Scholar

Department of Management Studies

Holy Cross College, Nagercoil

Dr.E.Joseph Rubert

Research Supervisor

Assistant Professor and Head

Department of Business Administration

St.Jerome's College, Anandhanadarkudy

Dr.C.K.Sunitha

CO-Supervisor

Assistant Professor

Department of Commerce

Holy Cross College, Nagercoil

Abstract

The present study has made a moderate attempt to financial performance analysis of five Non Banking Financial Companies in India during the period of five years from April, 2014 - Mar, 2019, using CAMEL model based on different ratios under the financial parameters (Capital Adequacy, Asset Quality, Management Efficiency, Earnings Capacity and Liquidity). It is observed that the selected Home Loan Services of the Non Banking Financial companies are registered with the Reserve Bank of India in the category of NBFC – ND, Such as Aadhar Housing Finance Ltd (AHFL), Equitas Small Finance Bank Ltd (ESFBL), Hinduja Housing Finance Ltd (HHFL), Aptus Value Housing Finance India Ltd (AVHFL) and Dewan Housing Finance Ltd (DHFL). This research study is mainly based on the secondary data collected from

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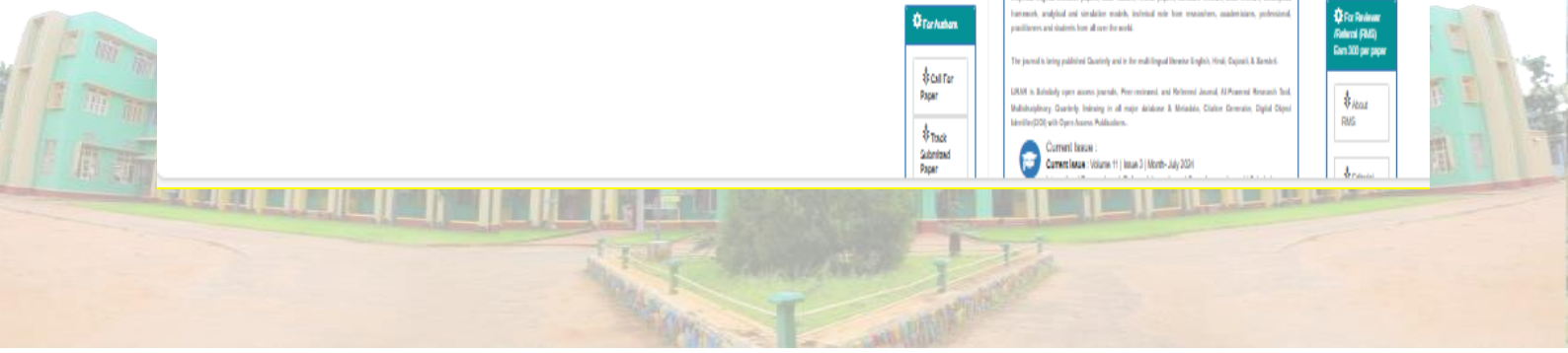
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EFFECTIVENESS AND THE BENEFITS OBTAINED BY THE EMPLOYEES AFTER PERFORMANCE APPRAISAL

A. Franklin Ragila¹ & Dr. J. Divya Merry Malar²

Research Scholar & Assistant Professor, Department of Commerce, Holy Cross
College (Autonomous), Nagercoil
Research Supervisor & Assistant Professor, Department of Commerce, Holy Cross
College (Autonomous), Nagercoil

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ABSTRACT: *The assessment of how the employees are successful in their individual goal comes a critical part of human resource management, which leads to a concept of 'performance appraisal'. It is utilized to track individual contribution and performance against organizational goals and to identify individual strengths and opportunities for future improvements and assessed whether organizational goals are achieved and also serves as a basis for the company's future prospects. A structured questionnaire was the main instrument used in this study. This study examined the effectiveness and the benefits obtained by the employees by the system of performance appraisal. The result of the study showed that the performance appraisal system had benefited the employees in their promotion thus increases the increment. The results reflected that the performance appraisal system is effective and brought positive impact on the employees' performance.*

Key Words: PERFORMANCE APPRAISAL, EMPLOYEE, EFFECTIVE, INCREMENT, PROMOTION

INTRODUCTION

"Performance appraisal is an important tool in managing employees. It is a communication tool that allows managers to set goals and expectations of their employees and then evaluate their performance. Based on how they do, the employees can be rewarded or if there is a need, a corrective plan of action can be implemented. Either way, performance appraisal sets clear expectations for what is expected from an employee" defines Jonathan Roe

In almost every organisation every employee is subjected to periodic appraisal of his/her performance. It is highly important that if the organisation wants to make best use of its human resource available, an effective performance appraisal system is required that brings rationality in management. If an organisation wants to maximise its effectiveness then it must have a tool to discriminate an effective employee and not so effective employee. In the present scenario, performance appraisal is not something of a choice left to the wishes of the corporate bosses, nor is it a privilege to be enjoyed by few business conglomerates. Thus, across the human activities some way or other performance appraisal is conducted in different ways and all of us consciously or unconsciously evaluate our actions from time to time. In social situations, performance appraisal is conducted in a systematic and planned manner to achieve various organisational goals in social system. Therefore, performance appraisal is a must for every organisation for its survival and growth.

DEFINITION

According to Carl Heyel, "Performance appraisal is the process of evaluating the performance and qualification of the employees in terms of the job requirements, for administrative purposes such as placement, selection and promotion to, provide financial rewards and other actions which require differential treatment among the members of a group as distinguished from actions affecting all members equally".

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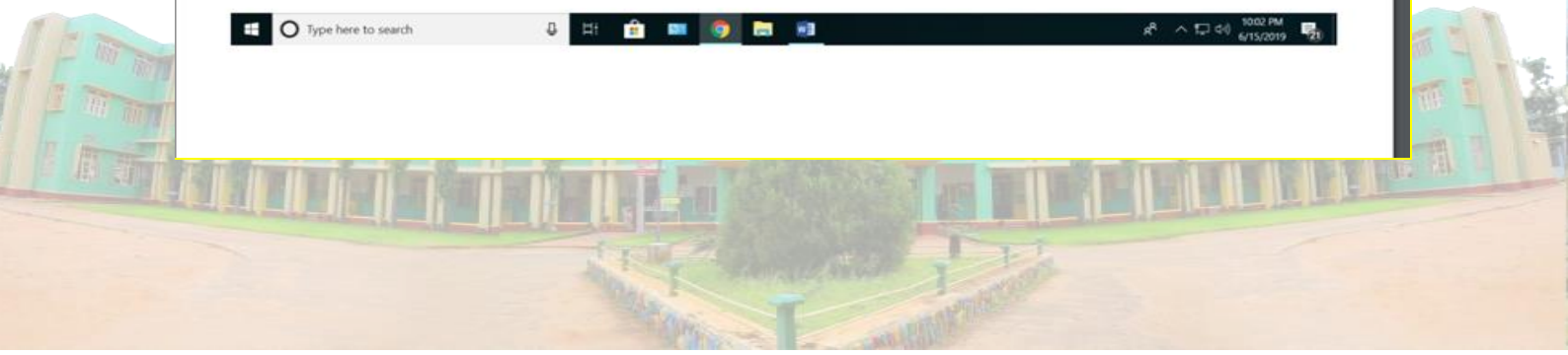
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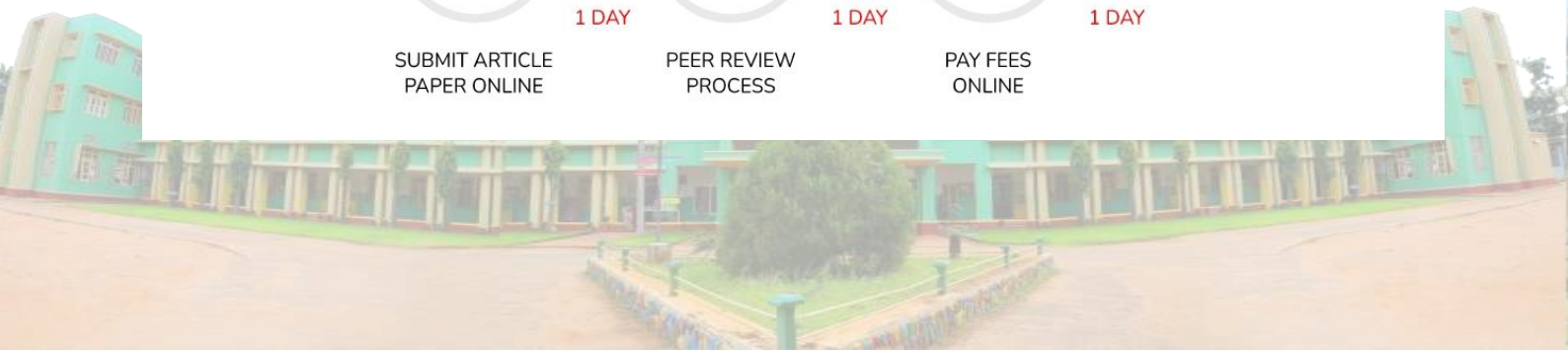
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A STUDY ON THE PERCEPTION OF THE HOUSEHOLDS ON E-WASTE MANAGEMENT IN MARTHANDAM

1st Author: Dr. R. Evalin Latha, Assistant Professor, Department of Commerce, Holy Cross College (Autonomous), Nagercoil-629002.

2nd Author: Mrs. A. Franklin Ragila, Research Scholar & Assistant Professor, Department of Commerce, Holy Cross College (Autonomous), Nagercoil-629002.

3rd Author: Mrs. J. Jenifer, Research Scholar & Assistant Professor, Department of Commerce, Holy Cross College (Autonomous), Nagercoil-629002.

ABSTRACT

Waste management, especially when it comes to electronic products, has been given much attention over the years in the country. E-Waste is otherwise known as electronic waste and includes old, broken or obsolete items such as computer monitors, keyboards, printers and projectors. E-waste took centre stage in the country's discourse on environmental conservation this World Environment Day. Still, the issue of e-waste, which is among the most dangerous kinds of waste, contains heavy metals and other toxic chemicals - remains insidious. Obsolete electronic devices are rapidly filling the landfills of the globe. In the US alone, more than 100 million computers are thrown away with less than 20% being recycled properly. The EPA estimates as much as 60 million metric tons enter landfills every year. Most electronics that are improperly thrown away contain some form of harmful materials such as beryllium, cadmium, mercury and lead. These materials might be trace elements, but when added up in volume, the threat to the environment is significant. Besides adding harmful elements to the environment, improper disposal of e-waste is a recycling opportunity lost. Almost all electronic waste contains some form of recyclable material, including plastic, glass and metals. Even today, when India is among the world's largest consumer of mobile phones with 1.5 million tonnes of e-waste generated in 2015, most consumers are still unaware of how to dispose of their e-waste. Most Indians end up selling their e-waste to the informal sector, which poses severe threats to human (including children's) lives, with its improper and highly hazardous methods of extracting the trace amounts of precious metal from it and handling e-waste for profit. Therefore there is a need for a study the perception of household e-waste and how it is disposed. This paper aims to study the households' knowledge and perception regarding the disposal of e-waste.

KEY WORDS: e-waste, perception, knowledge, methods, obsolete

INTRODUCTION

Electronic waste or e-waste is a term for electronic products that have become unwanted, non-working or obsolete which had essentially reached the end of their useful life. Because technology advances at such a high rate, many electronic devices become "trash" after a few short years of use. In fact, whole categories of old electronic items contribute to e-waste such as VCRs being replaced by DVD players, and DVD players are being replaced by blu-ray players. E-waste is created from any electronic materials like computers, TVs, monitors, mobile phones, PDAs, VCRs, CD players, fax machines, printers, etc.

It is growing at a very fast pace posing serious challenge in its safe management both nationally and globally. Unlike other kinds of waste, e-waste constitutes of disparate materials in which some of them are highly toxic and some of them are very precious. The Indian e-waste scenario is highly complex on account

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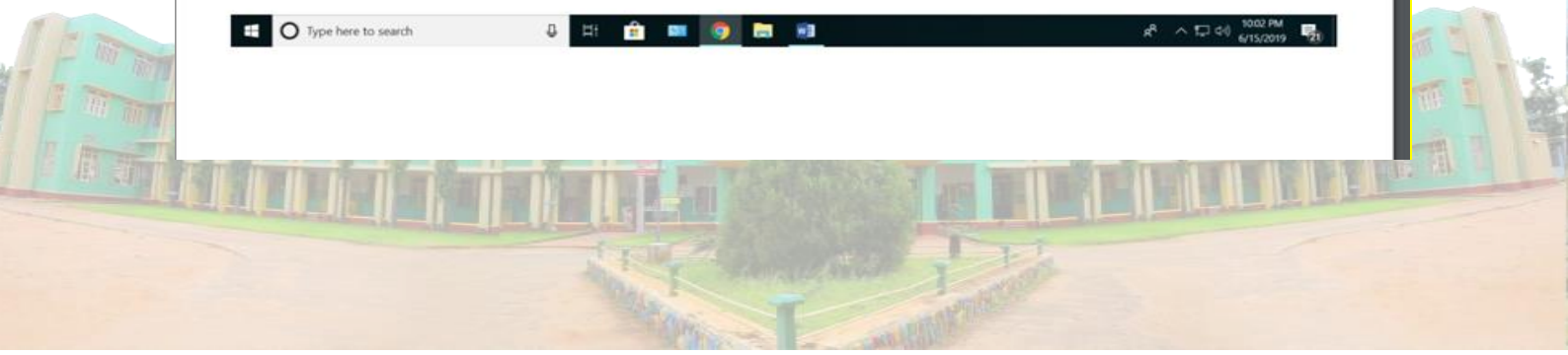
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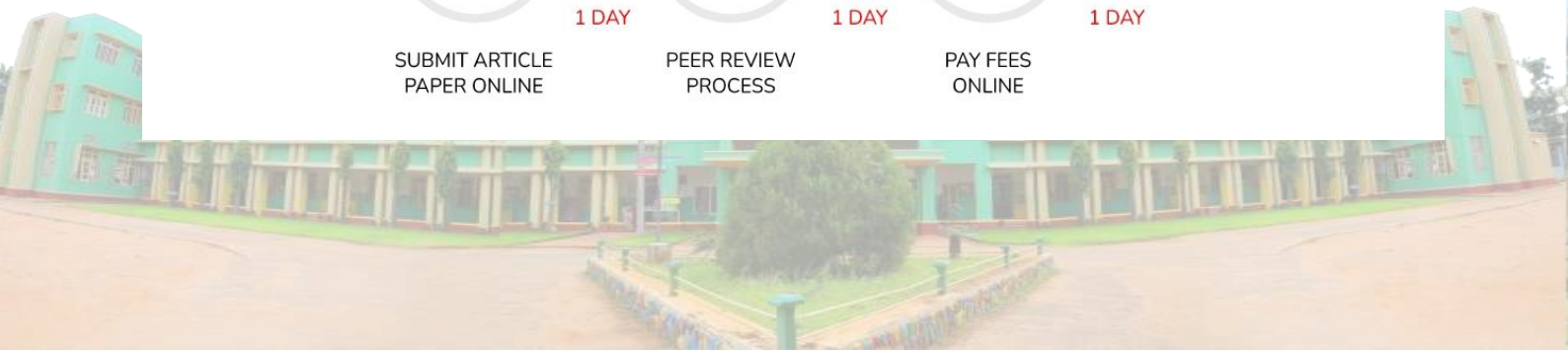
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A STUDY ON THE SATISFACTION LEVEL AND THE FACTORS AFFECTING PERFORMANCE OF PRIVATE SCHOOL TEACHERS WITH SPECIAL REFERENCE TO ANJUGRAMAM TOWN

Ist Author: A. Franklin Ragila, Research Scholar Regn. No. 19123041012013 & Assistant Professor,
Department of Commerce, Holy Cross College (Autonomous), Nagercoil-629002.

franklinragila@holycrossngl.edu.in

IInd Author: Dr. J. Divya Merry Malar, Research Supervisor & Assistant Professor, Department of
Commerce, Holy Cross College (Autonomous), Nagercoil-629002.

Affiliated to Manonmaniam Sundaranar University, Abishekapatti, Tirunelveli-627012, Tamilnadu, India.

ABSTARCT

Performance appraisal is considered to be the vital tool for measuring the performance of an employee and the information so collected will be used to optimize the resource of individuals in an organisation. In many organisations, appraisal results are used either directly or indirectly to identify the better performing employees who should get the majority of available merits, pay increase, bonus and promotion. On the other hand, it is also used to identify the poorer performer who requires some sort of counseling or in extreme cases demotions, dismissal or decrease in pay. This paper aims to study the satisfaction level and the factors affecting the performance of private school teachers in Anjugramam town. The results of this research exhibit that recognition and professional development are the most satisfied factors and management rules and competition are the major affecting factors which plays a vital role in the performance of private school teachers in Anjugramam town.

KEY WORDS: *performance appraisal, private, school teachers, performance appraisal process,*

INTRODUCTION

Performance appraisal dates back to Second World War period with the advent of professionalisation in management. Performance appraisal was done on the basis of the degree of certain traits which are considered as essentials for effective performance of employees. Performance appraisal of individual groups and organisations is a common practice in societies. The human inclination can create serious motivational, ethical and legal problems in the workplace. If an employee's performance was found to be less than ideal, a cut in pay would follow and in case, if an employee's performance was better than the expectation, an increment was in order. Performance appraisal is generally done in a systematic and formal way. The appraiser measures the work of the employees and compares it with targets and plans. The appraiser also analyses the factors behind work performance of employees. The

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EFFECTIVENESS AND THE BENEFITS OBTAINED BY THE EMPLOYEES AFTER PERFORMANCE APPRAISAL

A. Franklin Ragila¹ & Dr. J. Divya Merry Malar²

Research Scholar & Assistant Professor, Department of Commerce, Holy Cross
College (Autonomous), Nagercoil
Research Supervisor & Assistant Professor, Department of Commerce, Holy Cross
College (Autonomous), Nagercoil

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ABSTRACT: *The assessment of how the employees are successful in their individual goal comes a critical part of human resource management, which leads to a concept of 'performance appraisal'. It is utilized to track individual contribution and performance against organizational goals and to identify individual strengths and opportunities for future improvements and assessed whether organizational goals are achieved and also serves as a basis for the company's future prospects. A structured questionnaire was the main instrument used in this study. This study examined the effectiveness and the benefits obtained by the employees by the system of performance appraisal. The result of the study showed that the performance appraisal system had benefited the employees in their promotion thus increases the increment. The results reflected that the performance appraisal system is effective and brought positive impact on the employees' performance.*

Key Words: PERFORMANCE APPRAISAL, EMPLOYEE, EFFECTIVE, INCREMENT, PROMOTION

INTRODUCTION

"Performance appraisal is an important tool in managing employees. It is a communication tool that allows managers to set goals and expectations of their employees and then evaluate their performance. Based on how they do, the employees can be rewarded or if there is a need, a corrective plan of action can be implemented. Either way, performance appraisal sets clear expectations for what is expected from an employee" defines Jonathan Roe

In almost every organisation every employee is subjected to periodic appraisal of his/her performance. It is highly important that if the organisation wants to make best use of its human resource available, an effective performance appraisal system is required that brings rationality in management. If an organisation wants to maximise its effectiveness then it must have a tool to discriminate an effective employee and not so effective employee. In the present scenario, performance appraisal is not something of a choice left to the wishes of the corporate bosses, nor is it a privilege to be enjoyed by few business conglomerates. Thus, across the human activities some way or other performance appraisal is conducted in different ways and all of us consciously or unconsciously evaluate our actions from time to time. In social situations, performance appraisal is conducted in a systematic and planned manner to achieve various organisational goals in social system. Therefore, performance appraisal is a must for every organisation for its survival and growth.

DEFINITION

According to Carl Heyel, "Performance appraisal is the process of evaluating the performance and qualification of the employees in terms of the job requirements, for administrative purposes such as placement, selection and promotion to, provide financial rewards and other actions which require differential treatment among the members of a group as distinguished from actions affecting all members equally".

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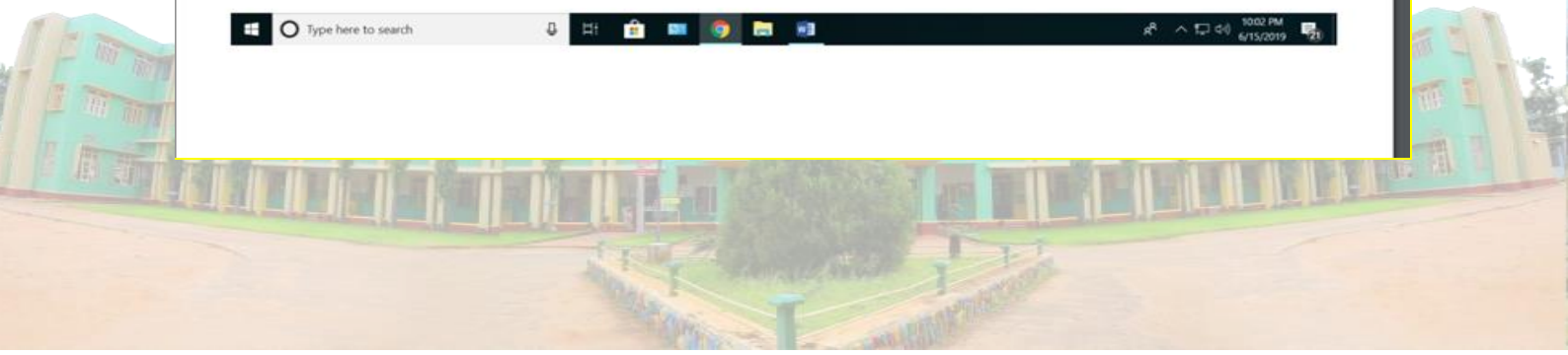
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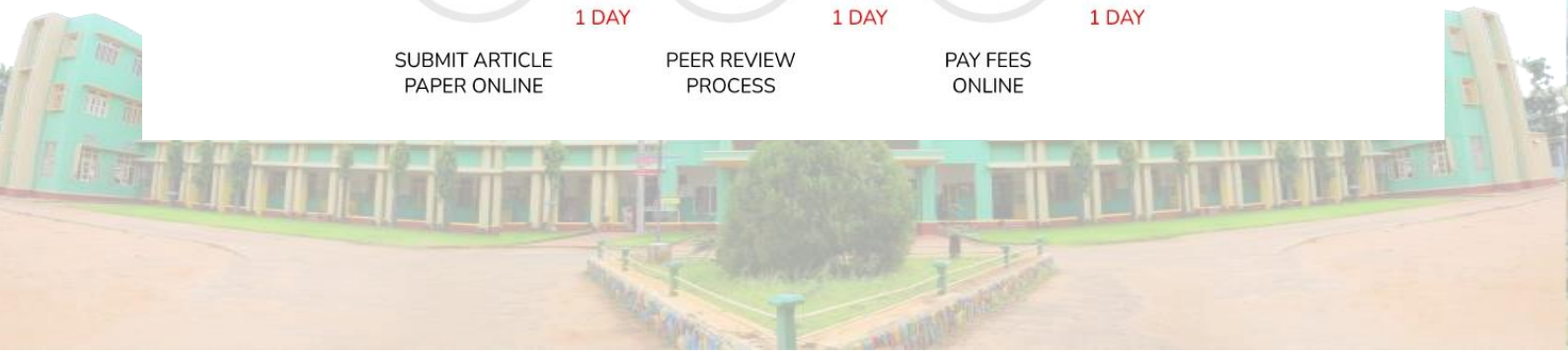
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A STUDY ON THE PERCEPTION OF THE HOUSEHOLDS ON E-WASTE MANAGEMENT IN MARTHANDAM

Ist Author: Dr. R. Evalin Latha, Assistant Professor, Department of Commerce, Holy Cross College (Autonomous), Nagercoil-629002.

IInd Author: Mrs. A. Franklin Ragila, Research Scholar & Assistant Professor, Department of Commerce, Holy Cross College (Autonomous), Nagercoil-629002.

IInd Author: Mrs. J. Jenifer, Research Scholar & Assistant Professor, Department of Commerce, Holy Cross College (Autonomous), Nagercoil-629002.

ABSTRACT

Waste management, especially when it comes to electronic products, has been given much attention over the years in the country. E-Waste is otherwise known as electronic waste and includes old, broken or obsolete items such as computer monitors, keyboards, printers and projectors. E-waste took centre stage in the country's discourse on environmental conservation this World Environment Day. Still, the issue of e-waste, which is among the most dangerous kinds of waste, contains heavy metals and other toxic chemicals - remains insidious. Obsolete electronic devices are rapidly filling the landfills of the globe. In the US alone, more than 100 million computers are thrown away with less than 20% being recycled properly. The EPA estimates as much as 60 million metric tons enter landfills every year. Most electronics that are improperly thrown away contain some form of harmful materials such as beryllium, cadmium, mercury and lead. These materials might be trace elements, but when added up in volume, the threat to the environment is significant. Besides adding harmful elements to the environment, improper disposal of e-waste is a recycling opportunity lost. Almost all electronic waste contains some form of recyclable material, including plastic, glass and metals. Even today, when India is among the world's largest consumer of mobile phones with 1.5 million tonnes of e-waste generated in 2015, most consumers are still unaware of how to dispose of their e-waste. Most Indians end up selling their e-waste to the informal sector, which poses severe threats to human (including children's) lives, with its improper and highly hazardous methods of extracting the trace amounts of precious metal from it and handling e-waste for profit. Therefore there is a need for a study the perception of household e-waste and how it is disposed. This paper aims to study the households' knowledge and perception regarding the disposal of e-waste.

KEY WORDS: e-waste, perception, knowledge, methods, obsolete

INTRODUCTION

Electronic waste or e-waste is a term for electronic products that have become unwanted, non-working or obsolete which had essentially reached the end of their useful life. Because technology advances at such a high rate, many electronic devices become "trash" after a few short years of use. In fact, whole categories of old electronic items contribute to e-waste such as VCRs being replaced by DVD players, and DVD players are being replaced by blu-ray players. E-waste is created from any electronic materials like computers, TVs, monitors, mobile phones, PDAs, VCRs, CD players, fax machines, printers, etc.

It is growing at a very fast pace posing serious challenge in its safe management both nationally and globally. Unlike other kinds of waste, e-waste constitutes of disparate materials in which some of them are highly toxic and some of them are very precious. The Indian e-waste scenario is highly complex on account