

OFFICE OF THE PRINCIPAL NAYAGARH (AUTONOMOUS) COLLEGE NAYAGARH-752069

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NAAC 2022/ Metrics Level Deviations/Cr3-11

Date:- 26/1/2022

Criteria 3.4.4:	Number of books and chapters in edited volumes / books published per
	teacher during the last five years
	teacher during the last rive years
DVV Findings	Please provide 1. cover page, content page, first page and last page of the book/publication showing title, author name along with the content page, ISBN number and year of publication of all the books listed in all the 5 years, attested by the Principal. (other than journal excluded data in 3.4.3) 2. Please provide web-link of research papers by title, author, Department/ School/ Division/ Centre/ Unit/ Cell, name and year of publication for all the 5 assessment years. 3. List of book & chapters edited volumes/book published 4. Name teacher, title of paper title of book published, title of the proceeding of the conference, name of the publisher, year of publication(calendar year), whether in national /international, ISBN/ISSN number, the proceeding photo with location & function etc., attested by Principal.
Response/ Clarification	1)List of book & chapters edited volumes/book published 4. Name teacher, title of paper title of book published, title of the proceeding of the conference, name of the publisher, year of publication(calendar year)
	(Appendix-I)
	2)Cover page, content page, first page and last page of the
	book/publication showing title, author name along with the content page,
	national /international, ISBN/ISSN number and year of publication of all
	the books listed in all the 5 years, attested by the Principal is attached,
	Web-link of research papers by title, author, Department/ School/
	Division/ Centre/ Unit/ Cell, name and year of publication (Appendix-II)

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IQAC Coordinator

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APPENDIX-I

.4.4.1: To	3.4.4.1: Total number of books and chapters in edited volumes / books published, and papers in national/international conference-proceedings year	and chapters in	n edited volumes	/ books pu	ublished, and pa	pers in nationa	/internation	al conferenc	e-proceedir	ngs yea
SI. No.	Name of the teacher	Title of the book/chapters published	Title of the book/chapters Title of the paper published e	Title of the proceedin gs of the conferenc e	Name of the conference	National / International	Year of publication	ISBN/ISSN Institute number of at the the time of proceeding publicatio	Affiliating Institute at the time of publicatio	Name of the publisher
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APPENDIX-II

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READING WORLD ITTERATURE

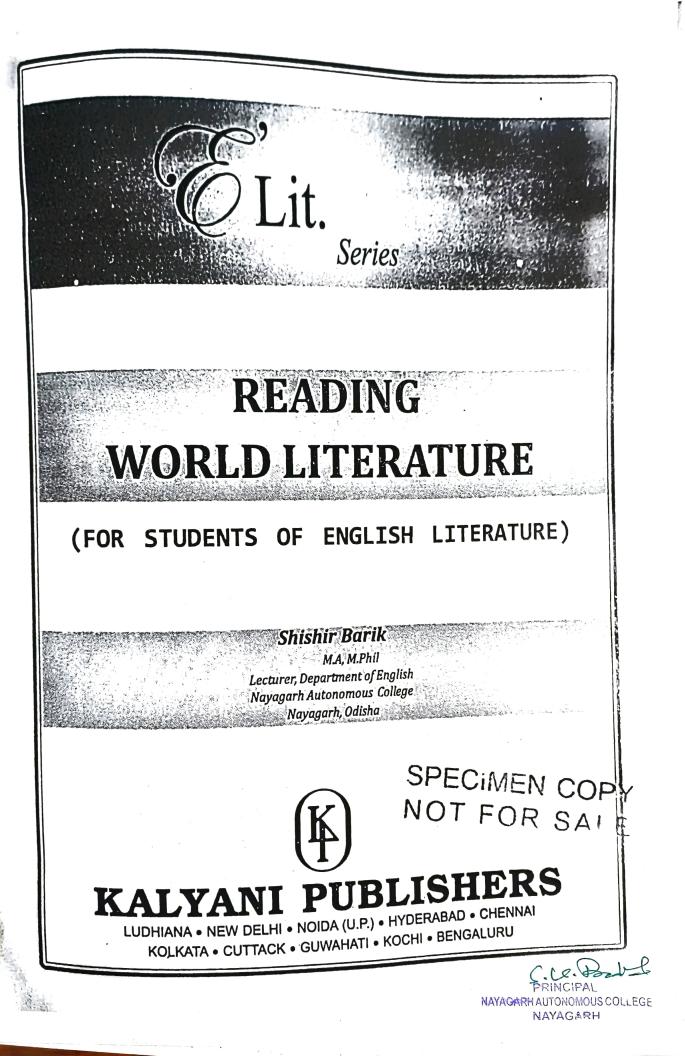
(FOR STUDENTS OF ENGLISH LITERAMULE)

Shishir Barik

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World literature consists of those works that ignore borders and boundaries of many sorts -geographic, generic, and temporal. But considered as a set of texts or as a mode of circulation, world literature does have definable boundaries, but these boundaries cannot be sketched at only one level, on a single plane. Rather, world literature operates in a multi-dimensional space, in relationship to four frames of reference: the global, the regional, the national, and the individual. These frames of reference, moreover, continually shift over time, and so the temporal dimension serves as a fifth frame within which world literature is continually formed and reformed. This book attempts to sketch the boundaries of a global world literature that is attainable in practice by readers.

Preface

Reading World Literature is intended to serve as an important need for English Honors students of the universities of Odisha. This book, which is as per the CBCS syllabus, introduces the students to the study of world literature through a representative selection of texts from around the world. The purpose is to read beyond the classic European canon by including defining literary texts from other major regions or countrics, except the United States of America, written in languages other than English, but made available to the readers in English translation.

This book comprises of ten chapters. The first chapter deals with introductory concepts on literature in general and the World Literature in particular. It will help form a broad understanding of the World Literature in the mind of readers. The second and the third chapter deal with European literature with special reference to Albert Camus and Fyodor Dostoevsky respectively. The fourth and the fifth chapter contain Caribbean &African Literature with a focus on V S Naipaul and Chimamanda Ngozi Adichic correspondingly. The next two chapters namely 6th and 7th focus on Canadian Short Fiction writers Margaret Atwood and Alice Munro. Latin American Poetry of Pablo Neruda and that of Octavio Paz adorns the 8th and 9th Chapters respectively. Finally, the closing chapter deals with challenges & possibilities of World Literature. By reading this book, the readers will be able to identify and analyze a variety of major works of world literature and identify major themes of representative poetic, fictional and dramatic works. This book is marked by its clarity of concepts, simplicity, precision and coherence.

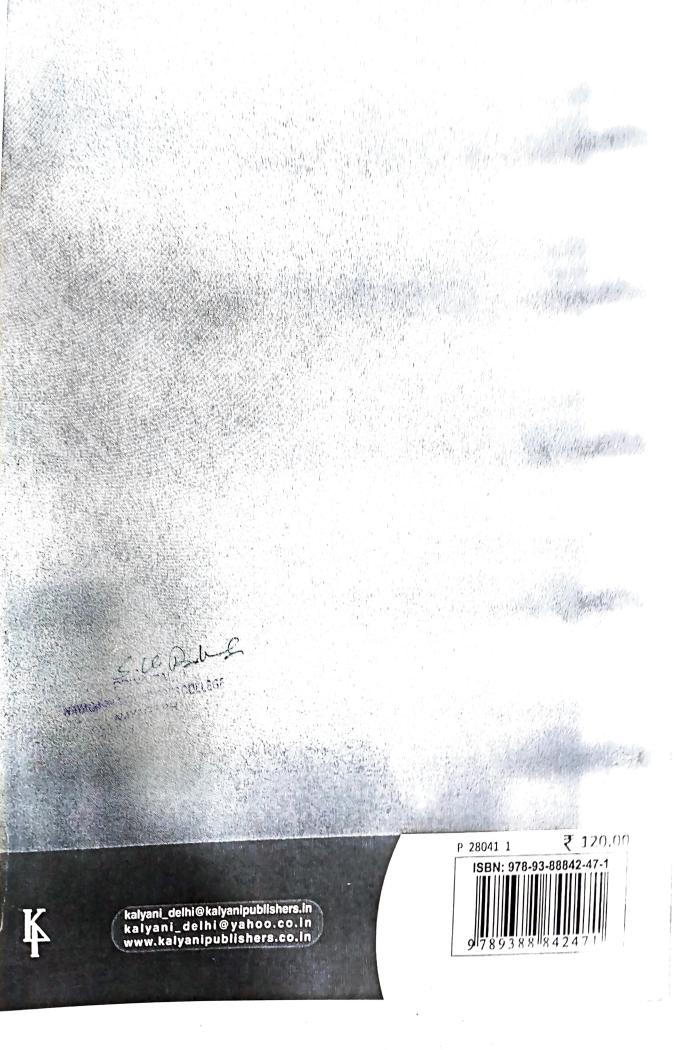
It is sincerely hoped that the book would prove useful to the students of English literature. Suggestions for further improvement of the book are welcome and shall be gratefully

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Shishir Barik

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acknowledged.



PHYSICS



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Satya Prakash Former Head, Deptt. of Physics Vardhaman (P.G.) College Bijnor (U.P.)

Dr. Bipin Kumar Pattnaik Reader in Physics Nayagarh Autonomous College Nayagarh, Odisha

class X

Rajata Kumar Mansingh Assistant Professor of Royales Rajdham College Bhubaneswar, Odisha



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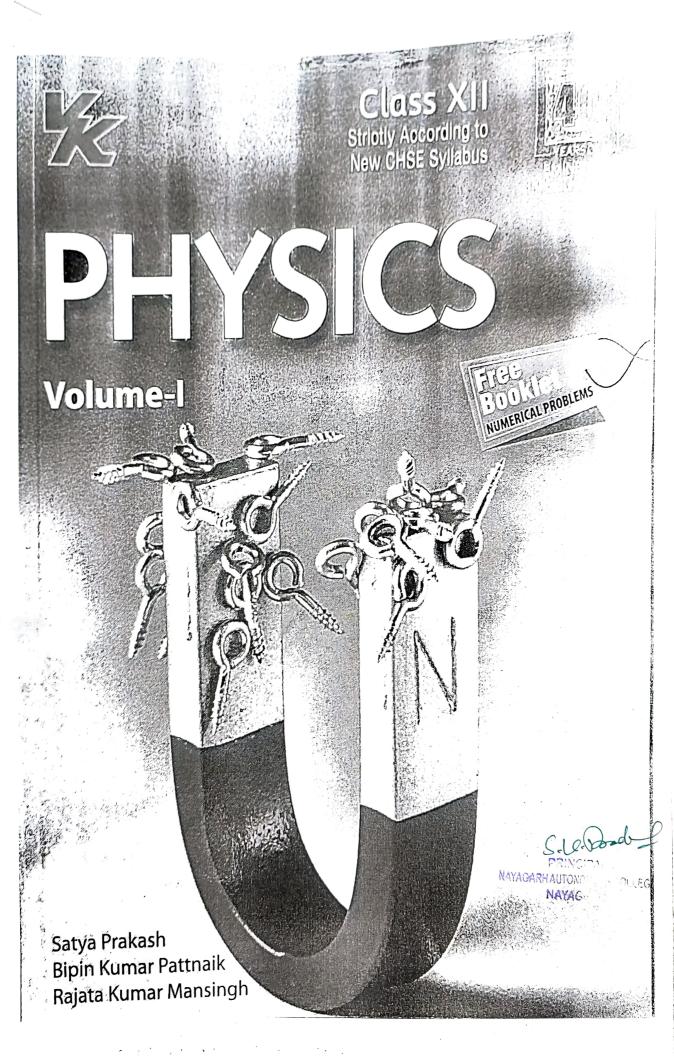
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Capt. Jayaden Sahoo Seminar Convenor

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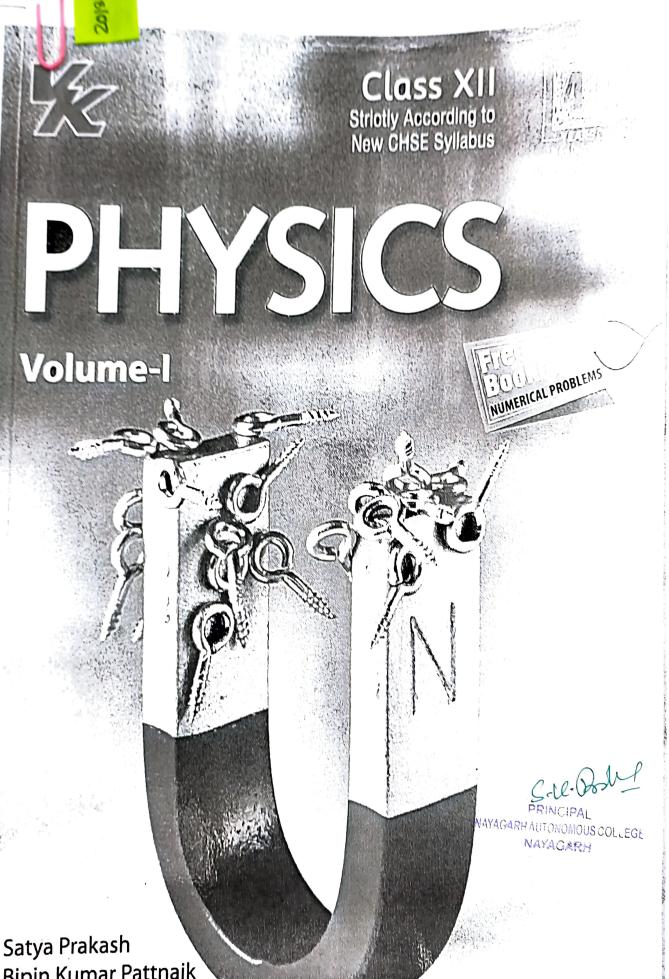
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Bipin Kumar Pattnaik Rajata Kumar Mansingh

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2. Electric Flux and Gauss's Theorem	
3. Electric Potential	
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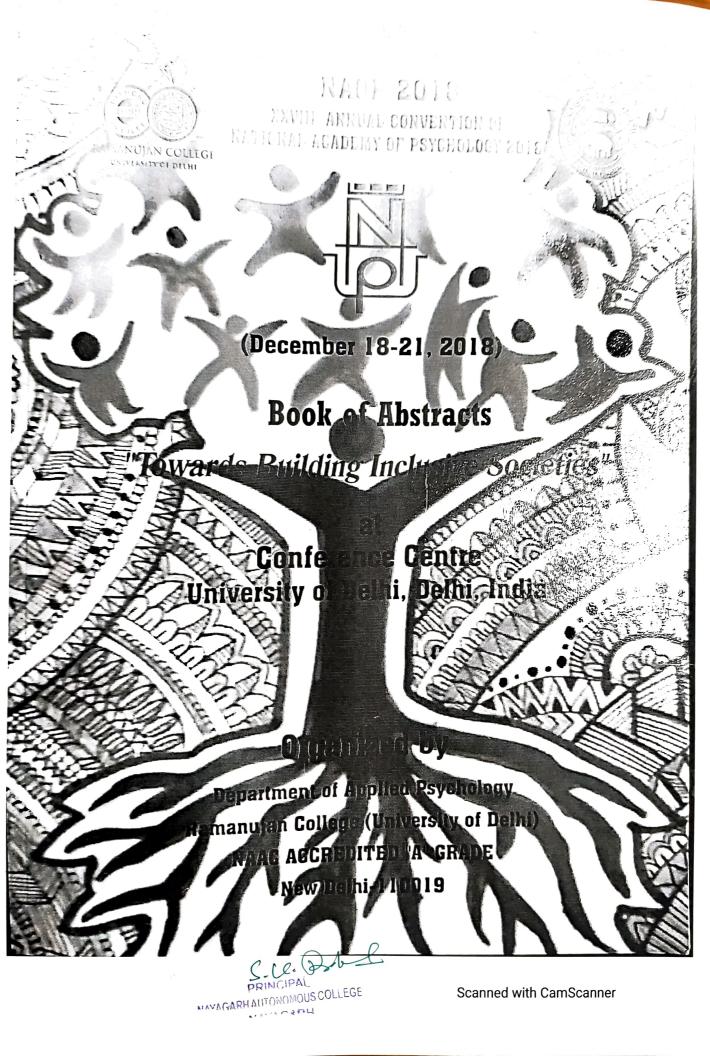
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religiosity, forgiveness, and compositionate love. Multiple representation was carried out is examine the relationship intervent toligiosity on one hand and forgivenest and compassionate love on the other. The contrality of religion positively profile of tellprofity, forgiveness and compassionate love compared to men. Women scored higher on religiosity, forgiveness and compassionate love compared to men. Religiosity was found to be related to certain demographic factors like religion and caste. Higher levels of religiosity are associated with higher levels of forgiveness and compassionate love.

Keywords: Religiosity, Forgiveness, Compassionate Love

Role of Gender and Social Media Use on Perceived Social Support and Psychological Wellbeing of College Students

Sunanda Pattnaik Assistant Professor, Department of Psychology, Utkal University, Odisha

Prabhudarsan Sahoo Lecturer, Nayagarh Autonomous College, Nayagarh

The aim of the paper was to examine the role of gender and social media use on perceived social support and psychological well-being of college students. For the study a 2 (Gender) χ 2 (Social media use) factorial design was adopted. The dependent variables were participants perceived social support and Psychological wellbeing. The sample of the study consisted of 120 undergraduate college students. Subjects were randomly selected from different educational institutions of Bhubaneswar after obtaining their informed consent to participate in the present research study. The present research sought to study the role of Gender and Social media use on perceived social support and psychological well-being of undergraduate students. Results revealed that girls had better perceived family support in comparison to their boy counterparts; whereas boys had better perceived support of friends and significant others. The findings also suggest that boys had high scores on psychological wellbeing than girls. Subjects with high scores on social media use had better perceived friends and significant others support and higher psychological wellbeing than those with low social media use. It was concluded that high social media use can contribute for receiving social support from friends and significant others and a higher sense of psychological wellbeing among male college students.

Keywords: Social Media, Social Support, Well-Being

Exploring the Similarities and Differences in Forgiveness of the Older People Living in Shelter Home and Families: A Qualitative Study

Charu Prabhakar, Poonam Sharma, Love Kumar Mishra & G. K. Tiwari Department of Psychology, Dr. Harisingh Gour Vishwavidyalaya, Sagar, Madhya Pradesh

The study explores the nature, antecedents correlates and consequences of forgiveness in elderly people living in shelter home in those living with their families. The study also aimed to explicate the role of forgiveness inn the lives of elderly people. The study comprised 20 elderly people out of which 10 were living in shelter home and rest with their families. The participants responded to basic questions pertaining to meaning, nature correlates and

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(+2 Commerce-2nd Year)

S.C. Aggarwal Laxmidhar Sahoo

NAYAGARHAI

Anup Rajput Surendra Kumar Mallick



Syllabus Covered: Council of Higher Secondary Education, Bhubaneswar, Odisha

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Objectives

- To enable the students to learn basic concepts of determinants & Matrices;
- To learn the concept, features, types of Set Theory;
- To develop an understanding about concept, relations, types and application of functions; To enable the students to learn the concept, methods and applications of Limit, continuity, ٠

and Elective Comparison,

Paper-II

(Second Year)

- To help the students in learning the concept, types and calculation of Average; and To enable the students to understand the concept, objectives, features and applications of

Course Inputs

Unit-I: Business Mathematics Determinants: Up to third order, Minors, Co-factors, Properties and Cramer's rule Matrices: Meaning, Definition, Types, Algebra of matrices, Solving Linear Equations Problems Set Theory: Meaning, Definition, Types and Operations (Union & Intersection) Functions: Meaning and Relations of Functions, Types of Functions and Classification of

Unit-II: Calculus

Calculus-I: Limit & Continuity-Meaning, Definition, Methods of Finding Limits, Differentiation Calculus-II: integration up to substitution

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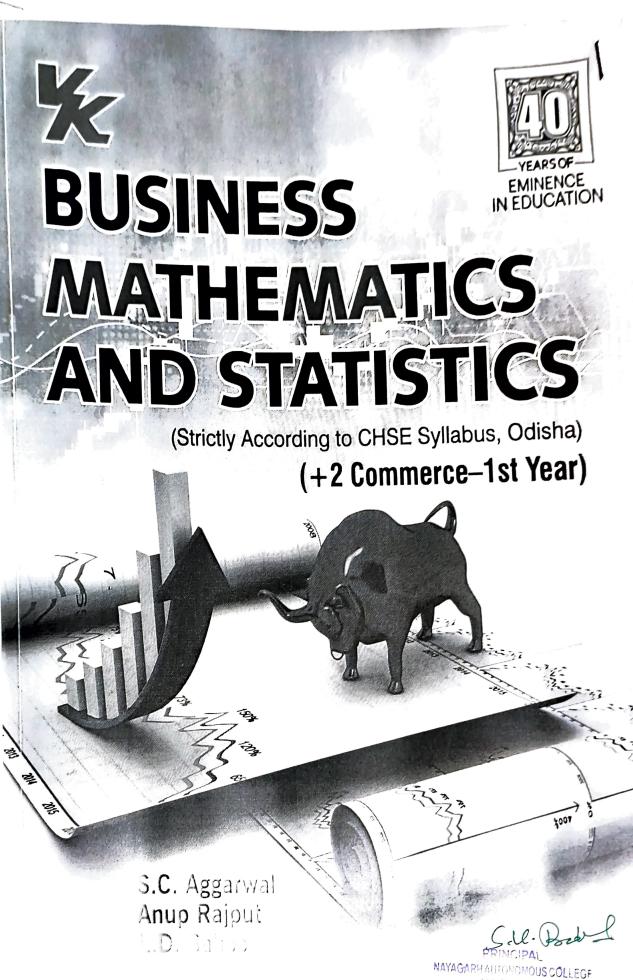
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Elementary Microeconomics and Macroeconomics	T.R. Jain, B.D. Majhi
Indian Economy and Statistics	T.R. Jain, B.D. Majhi
 Business Studies and Management 	R.K. Singla
Accountancy	A.K. Jain, Varun Jain
Cost Accounting	S.P. Gupta, Ajay Sharma



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PART-A: BUSINESS MATHEMATICS

9

1. Profit, Loss and Discount
2. Logarithms
3. Simple Interest
4. Compound Interest
5. Partnership
6. Annuity
7. Discounting of Bill of Exchange
8. Shares and Stock

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 History of India 	Raghunath Rai, Dr. Harihar Dash
 History of India (Oriya) 	Prof. Lakshmidhar Rout
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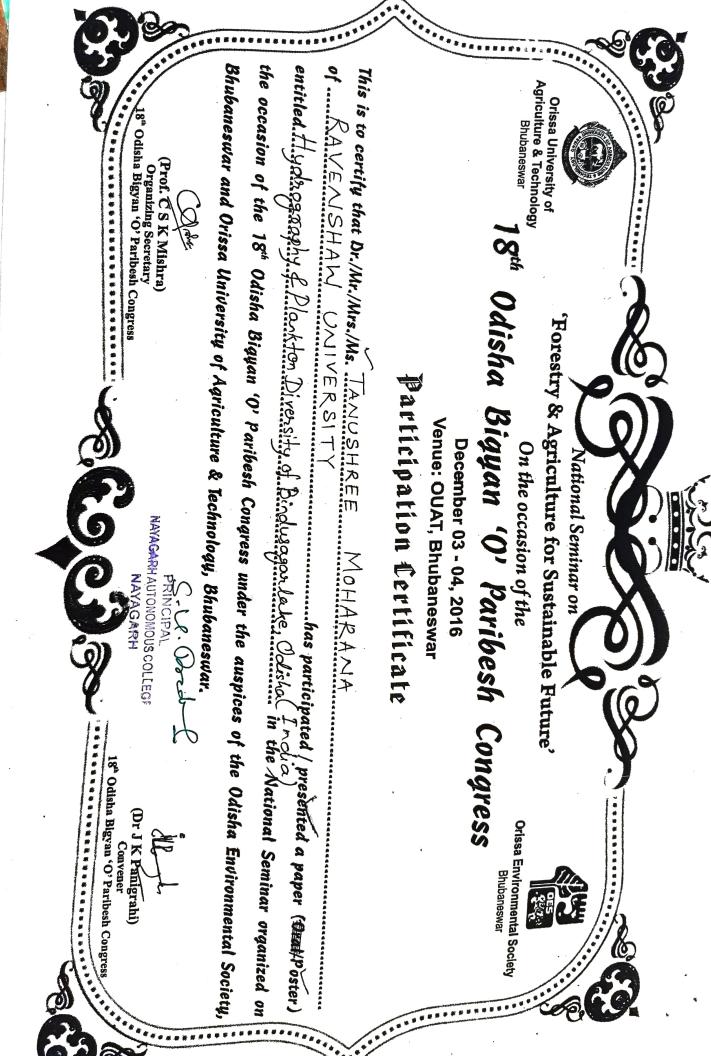
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BS-9

A Study on Water Quality and Plankton Diversity of A Local Pond Near College, Nayagarh, Odisha (India)

Ashok Kumar Mohanty and Tanushree Moharana

Department of Zoology, Nayagarh Autonomous College, Nayagarh, Odisha E mail id: tanushreemoharana.@hotmail.com

season as the indicator of water pollution. (52.87%) during winter season, Arthropods (33.33%) in summerseason and (47.74%) in monsoon identified in the water samples of the pond. Among them dominating organisms were Rotifers species of Phytoplanktons and Zooplanktons belonging to Arthropoda, Bacillariophyta, alkalinity during the monsoon. However, nutrient content was lower winter season. Over 137 Charophyta, Chlorophyta, Cilliophora, Cyanobacteria, Myzozoa, Ochrophyta, and Rotiferwere seasons. The study showed higher values of chloride, total hardness, calcium, magnesium and value of pH (6.8-7.7) and lower dissolved oxygen content (4.8-6.3 mg/L)during all the three under a microscope for identification of planktons. The study revealed that the pond had higher on a clean dry glass slide and mounted with a cover slip. After drying, the slides were observed of the water sample. One to two drops of water sample along with a drop of DPX were taken in 5% formaldehyde solution. It was followed by the addition of 0.08ml Lugol's iodine to 10ml collected by filtering through plankton scoop net of 50µ mesh size and then preserved immediately of the pond were studied for a period of 1 year from June-2016 to July-2017. Water sampler of contents likechloride, nitrate, nitrite and inorganic phosphate, sulphate and plankton assemblages like temperature, pH, dissolved oxygen, total hardness, calcium, magnesium, alkalinity, nutrient seasons spanning over winter, summer and monsoon. Physico-chemical properties of water water is used for bathing, washing anddumping of wastes. This studywas carried out in three 1.5 litre capacity was used for collection of samples. Plankton from the surface water was A local freshwater pond near Nayagarh Autonomous College was selected for studyas its

Keywords: Nayagarh, fresh water pond, water quality, Rotifers, Arthropods, dominating species

BS-10

Henna Methanolic Extract Embedded in Controlled Release Formulation and Anticancer Evaluation of Beta-Sitosterol in Nanocomposite

Sanjukta Badhai¹, Durga Barik², and Bairagi C. Mallick²

¹School of Biotechnology, KIIT University, Bhubaneswar-751024, Odisha, India ^{2,3}Department of Botany, Ravenshaw University, Cuttack-753003, Odisha, India

"E-mail: bcmallick@ravenshawuniversity.ac.in

controlled release nanocomposite was prepared and evaluated for in vivo anticancer efficacy in In the present study, Beta-Sitosterol in Lawsonia methanolic leaf extract embedded in

5

NAYAGARH ALITONOMOUS COLLEGE PRINCIPAL NIN

Forestry & Agriculture for Sustainable Future

Hydrography and Plankt-on Diversity of Bindusagar Lake, **Udisha (India)**

T**anushreeMoharana**, Saumya Dash, Sushri Nayak, Sambit Satyaprakash Mishra, Dipti Raut, Lipika Patnaik

Environmental Science Laboratory, Department of Zoology, Ravenshaw University,[Cuttack] E mail id:tanushree.moharana.bbsr@gmail.com

(34.04%) were found to dominate Bindusagar water. in the waters of Bindusagar. Over 141 species represented by Rotifers (40.43%) and Arthropods Zooplankton belonging to phyla Arthropoda, Bacillariophyta, Charophyta, Chlorophyta, along with consumption of phytoplankton by zooplankton and fishes. Phytoplankton and Cilliophora, Cnidaria, Cyanobacteria, Myzozoa, Ochrophyta and Rotifer were observed the number of phytoplankton reduces because of heavy rainfall and low nutrient concentration seasons.Summer is the most suitable season for the growth of phytoplankton in freshwater lakes because of long duration of solar period whereas in late summer and monsoon season, higher values of chloride, total hardness, calcium, magnesium and alkalinity during all the recorded at the north side of Bindusagar Lake during summer season. The eastern side showed value of nutrients and dissolved oxygen during all the three seasons. Higher values of pH were and monsoon. The study revealed that the south and north side of Bindusagar Lake had higher of planktons. The analysis period was divided into three seasons spanning over winter, summer with a cover slip. After 48hr of drying the slide was observed under a microscope for identification on a clean dry glass slide followed by one to two drops of processed water sample and mounted pellet. Then the pellet was collected in a watch glass for mounting. A drop of DPX was taken centrifuged at 1000rpm for 10minutes. The supernatant was taken out without disturbing the 0.08ml Lugol's iodine to 10ml of the sample. After about 24hr of preservation the sample was collected and immediately preserved in 5% formaldehyde solution followed by the addition of scoop net of 10-50 μ mesh size and then preserved. Plankton from the surface water was sampling. Plankton samples were collected by filtering 20 litres of water through plankton samples for dissolved oxygen estimation were fixed on the site (Winkler's method) after capacity was used for collection of water samples and transferred into BOD bottle. The water of seven months from December-2015 to September-2016. Niskin water sampler of 1.5 litre like nitrate, nitrite, and inorganic phosphate and plankton assemblages were studied for a period parameters such as temperature, chloride, pH, total hardness, dissolved oxygen and nutrients and is used for bathing, washing, dumping of waste and religious activities. All the hydrographical Bindusagar Lake is one of the most important fresh water bodies of Bhubaneswar, Odisha

Key words: BindusagarLake, hydrography, rotifers, monsoon, summer

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OLLEGE

2016-17

Developing SMEs in India

Study of SIDBI in the Post Reform Era





Dr. Laxmidhar Sahoo Prof. (Dr.) Ashok Kumar Mohanty

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PRINCIPAL NAYAGARHAUTONOMOUSCOLLEGE NAYAGARH



Developing SMEs in India Study of SIDBI in the Post Reform Era

Dr. Laxmidhar Sahoo

\$ 3 Lecturer Dept. of Commerce Nayagarh Autonomous College Nayagarh, Odisha

Prof. (Dr.) Ashok Kumar Mohanty Professor in Commerce and Comptroller in Finance Berhampur University Berhampur, Odisha

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Lasmidha: Sahoo is working as a lecturer in Commerce since I have reduce addition to PhD, he has also acquired MBA, LL a end M Ph. neutre in Commerce Dr Sahoo worked on UGC Harro Research Project on Financing policies of SIDBI : A study approximition provid in India. He has published more than ten calic actions is canous state inational and international journals of on in the second and and contributor of articles in various in and tailed is semicians and conferences. He is a life member of - I Contra Commerce Association as well as All India Commerce

Aution Numar Mohanty is the Professor in the P.G. Department of commerce Berhampur University in Orissa He was the recipient of Inc Medal by securing First Class First position in M Com counation 1981 of the University. He is having more than twenty-live o Fos Graduate and M Phil teaching experience Commerce. Moth and Future Studies Prof. Mohanty did work on a U.G.C. wored research project blied "Management of Technology aller in moun Passenger Car Industry. He has successfully and five research scholars who were awarded with Ph D degree in Part Lithe drugture investment Banking, Consumer Protection, - Seale that we are Operational analysis of SIDBI. Presently areas of Microfinance, Aluminium Industry, the sector Steel Plant & Foreign Tuctinology Transfer in Indian Automobile Mindre and L. Contomic Development. "Operational Analysis Transity of Small and Medium Enterprises in India Conception Financial Institutions"."Developing SMEs in ... On Fost Reform Era" Prof. Mohanty has one academic book Incarity Ivew Delhi Prof Mohanty has published more than ninty anous reputed national and state level JOurnals. He was heading the P. where the bertampur University during the period 2000-02, and was - remained Course Regulation Committee etc. of the University He was companies of Fernampur University during 2008-09. He is the life demic codies like Indian Commerce Association, Indian Academy of Social Once. Communice Association. He was also editing "The Orissa Journal of The presignal research Journal of the Onssa Commerce Association as Land Formal) he acts as Comptroller of Finance in Berhampur University,

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Study of SIDBI in the Post Reform Eral

Dr. Laxmidhar Sahoo Prof. (Dr.) Ashok Kumar Mohanty





Dr. Laxmidhar Sahoo Prof. (Dr.) Ashok Kumar Mohanty

In a developing country like India, financial sectors are not well developed in as much as they lack full range of markets and institutions that meet all the financing needs of the economy. There is generally a shortage of long-term finance for infrastructure and industry, finance for agriculture and small and medium (SMEs) enterprises development and financial products for certain section of the people. The role of development finance is to identify the gaps in institutions and markets in a country's financial sector and act as gap-filler. Development financial institutions (DFIs) not only act as gapfiller in finance, but also in promotional matters like project identification, preparation of project report, marketing supports, etc. A development bank like SIDBI is a development financial institution (DFI). Realising the importance of DFI as a gap-filler, the present study aims at studying the role of SIDBI in catering to the growing financial and promotional needs of SMEs in the country, particularly in the post-reform period. The book places considerable emphasis on analysis of SIDBI in various financing stages. It is sure the book will be immensely useful to students, academicians, researchers, practitioners in bank management and financial institutions field.

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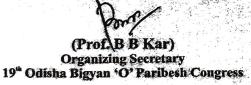
Orissa Environmental Society Bhubaneswar

On the occasion of the 19th Odisha Bigyan O' Paribesh Congress

November 25 - 26, 2017 Venue: KIIT University, Bhubaneswar

Participation Certificate

This is to certify that Dr./Mr./Mrs./Ms. Tancishie Mohanana of : <u>Managanh</u> <u>Autonomous</u> <u>Callege</u> has participated / presented a paper (Oral/Poster) entitled. <u>Calenal Distribution of Plankton in Clalen of</u> in the National Seminar organized on the occasion of the 19th Odisha Bigyan 'O' Paribesh Congress under the auspices of the Odisha Environmental Society, Bhubaneswar and KIIT University, Bhubaneswar.



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this research from 'lab to clinic' and raise hope for many patients and their custodians. A complete list of the potential applications of nanotechnology is too vast and diverse to discuss in detail, but without doubt one of the greatest values of nanotechnology will be in the development of new and effective medical treatments. This paper reviews the different applications of nanotechnology based drug delivery systems for the treatment of different diseases. **Keywords:** Nanotechnology, Drug Deliverv

BS-40

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Nutritional Quality of Host Plant Leaf of Daba Ecorace of Tasar Silk Moth

Sucheta Mohapatra, Gouranga Chandra Patra and Nakulananda Mohanty

P. G. Department of Zoology, North Orissa University Takatpur, Baripada -757003, Mayurbhanj, Odisha Email: suchetamohapatra7@gmail.com

The growth and development of tasar silk moth, silk quality and quantity produced by them depends upon the nutritional value of their food plants. Daba ecorace of tasar silk moth *Antharaea mylitta*, Drury feeds upon the primary host plant leaves of *Terminalia tomentosa* (Asan) and *Terminalia arjuna* (Arjuna). The concentration nutrients like protein, carbohydrate and total phenolics of the leaf of both the host plants were studied to find the suitable host plant. It was revealed that, the leaf of Asan showed significantly higher concentration of nutrients like protein, carbohydrate and total phenolics than that of the leaf of Arjuna. From this study it may be concluded that, the Asan is the better host plant for rearing of tasar silk moth, *A. mylitta* for their better productivity.

BS-41

\$\$ ♦ \$

Seasonal Distribution of Plankton in Water of Bindusagar Lake, Bhubaneswar

Tanushree Moharana*, Lipika Patnaik**

*Department of Zoology, Nayagarh Autonomous College, Nayagarh ** Environmental Science Laboratory, Dept. of Zoology, Ravenshaw University, Cuttack E mail id: tanushree.moharana.bbsr@gmail.com

The present study was carried out from November 2015 to October 2016 in Bindusagar Lake water to find out the plankton diversity and their seasonal variation. For this study 4 different stations were selected at four directions of the lake. The plankton samples were collected by using plankton net of $10-50\mu$ mesh and then preserved with 5% formaldehyde

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entrion followed by the addition of 0.08ml Lugol's indine to 10ml of the sample. Basic hydrological parameters like pH, DO, alkalinity, sulphate, nitrate and phosphate were analysed during the study. Seasonal variation in zooplankton and phytoplankton was observed during this period. minong zooplanktons, Rotifers (66.67%) dominated the population in winter whereas Arthropods minated in both summer (50%) and monsoon season (60.42%). Myzozoans (44.44%) minated the phytoplankton population in winter season whereas Chlorophyta and Ochrophyta (160th 40%) were large in number in summer season. In monsoon, Cyanobacteria comprised % of total phytoplankton population. It was found that Bindusagar lake water is rich in Rotifer population (40.43%) followed by Arthropods (34.04%). Due to availability of longer mation of solar period, summer is the most suitable season for the growth of phytoplankton in eshwater lakes as their photosynthesis rate increases. However, in late summer and monsoon eason, the number of phytoplankton reduces because of heavy rainfall and low nutrient concentration along with consumption of phytoplankton by zooplankton and fishes. Lecane secipiens was the most found Rotifer in zooplankton population and Cladophora sp. dominated the phytoplankton population. Other planktons like Coscinodiscus centralis, Ceratium tripos, machionus fulcatus, Cosmarium sp., Chroococcus sp., Biddulphia mobiliensis, Brachionus audatus apsteini etc were found in Bindusagar water.

Keywords: Bindusagar Lake, Plankton, Seasonal variation, Hydrology, Rotifers.

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BS-42

Inhibition of Mammary Cell Carcinoma by Flavonoids Enriched Extract from Cyperus rotundus

Shaktiprasad Pradhan*, Debasish Pradhan, Ranjit Mohapatra

UDPS, Utkal University, Bhubaneswar, Odisha, India, 751004 shakti.pharma16@gmail.com

Study on ethno medicinal plants serve as a source of many potential drug molecules and a neasure of safety as used since ancient times. By administration of various plant parts extracts in umber of diseases have been treated. *Cyperus rotundus* is a wild grass of the Cyperaceae amily, commonly known as "Nut grass" & has been used as traditional medicine worldwide. In Odisha *Cyprus rotundus* (CR) rhizomes are used as versatile folk medicines having anti-*Candida*, anti-inflammatory, anti-diabetic, anti-diarrhoeal, cytoprotective, antimutagenic, antimicrobial, antibacterial, antioxidant, cytotoxic and apoptotic, anti-pyretic and analgesic activities. Their traditional ethno botanical and ethno medicinal uses have been documented scientifically. Earlier phytochemical studies publicized the existence of alkaloids, flavonoids, annins, starch, glycosides and many novel sesquiterpenes. Our study illustrates the evidence-based in sequence concerning the anti breast cancer activity of CR extracts enriched with flavonoids.

OUSCOLLEGE

In-vitro evaluation of acarisidal properties of *Cymbopogon citrates* and *Nicotiana tabacum* against *Rhipicephalus spp.* collected from cattle and pet dogs

T. Moharana¹, A.K. Mohanty¹ and N. Sahoo² ¹Department of Zoology, College of Basic Science and Humanities, OUAT, Bhubaneswar ² Department of Preventive Medicine and Epidemiology, College of Veterinary Science and Animal Husbandry, OUAT, Bhubaneswar

Tick infestation is one of the reasons for economic losses in dairy farms as well as in pet dogs. Further, development of resistance, high cost of available drugs and hazards associated with the use of chemical acaricides have created interest to evaluate the effects of lemon grass oil, tobacco leaves and compare their effectiveness with deltamethrin against Rhipicephalus spp. The female ticks were particularly targeted by these acaricides as they are directly responsible for propagation of the parasites. Evaluation of acaricidal property was performed using different concentrations of the lemon grass oil, tobacco leaves, deltamethrin following the method of adult emulsion test (AET). It was found that lemon grass oil and deltamethrin were highly effective in case of cattle and dog ticks. In case of cattle ticks collected from urban areas, both deltamethrin and lemon grass oil had the same acaricidal efficacy but the effect of tobacco was negligible. But in case of ticks collected from rural areas, deltamethrin was more effective than lemon grass oil followed by tobacco. In case of dog ticks, lemon grass oil was highly effective followed by tobacco leaves and deltamethrin. Though deltamethrin had the same effect, it had negative impact on the animal as well as on the ecosystem. So, lemon grass oil, a phytoremedy, is suggested as a better alternative to cure the tick infestations. Further studies on pharmacologically active ingredients of lemon grass oil are necessary to replace its competitors.

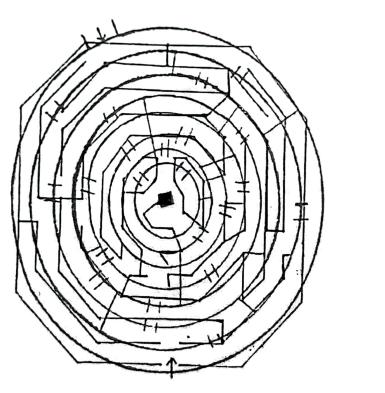
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Understanding Gender Roles: Myths and Realties

Prabhudarsan Sahoo*, Prof. Namita Mohanty** Saswati Jena***

Abstract

Gender roles are social prescriptions relating to different roles to be played by men and women in a given society. These socioculturally determined roles influence thoughts, feelings and actions specific to men and women in a given cultural context. Any deviation in role playing is often strictly dealt with by the members of the society. On the other hand, gender roles are basically stereotypes without any logic or rationality; and they pass down from one generation to the next. Though women are called the better half of men but in reality, the lives of majority of women are sagas of discrimination, struggle, torture and subordination. Study of psychology of gender roles helps us in discovering the underlying truths and misconceptions about the competence, efficaciousness, emotions, needs and desires of women. In general women across the globe are perceived as weak, passibe and inferior compared to men and are meant for carrying out the gender roles assigned to them like pink collar jobs, household activities, child rearing etc. They are denied of doing many activities for which they have a passion and thus, they are deprived of a playful childhood, joyful adolescence and a happy and fulfilled adult life. There are innumerable hurdles and many

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Invisible barriers, which constitute the glass ceiling for women. It blocks their path of development and prosperity. Differences between men and women shouldn't be equated with deficiencies or inferiority as it has been rightly pointed out that biology is not destiny. Thus, gender role stereotypes are man-made and the glass ceiling can be broken through empowering women. Spreading awareness on gender equality, providing equal opportunity to women in education and employment, accepting, respecting and promoting women's participation in social, political and economic activities, gender neutral curriculum in educational institutions, legislation for safety and security of women, women friendly socialization practices, freedom for expression and right to life with dignity will enable and empower them to achieve success and excellence in life. This will definitely help them to define and redefine their identities as women of substance in the society.

Introduction

"It is impossible to think about the welfare of the world unless the condition of women is improved. It is impossible for a bird to fly on only one wing." — Swami Vivekananda

Indubitably women have substantially contributed for the all-round development of our society ever since the dawn of civilization. However, their immense involvement and sacrifice in taking the society forward has not yet been acknowledged and even today also, they are fighting for their rights as individuals and struggling to carve a niche for a dignified life. Very often the social restrictions and discriminations against them stifle their curiosity to explore the world around them and the desire as well as the spirit to be independent and excel in different areas of life. In other words, the so called gender roles have kept them away from achieving distinctions in life. A gender role is a set of societal

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