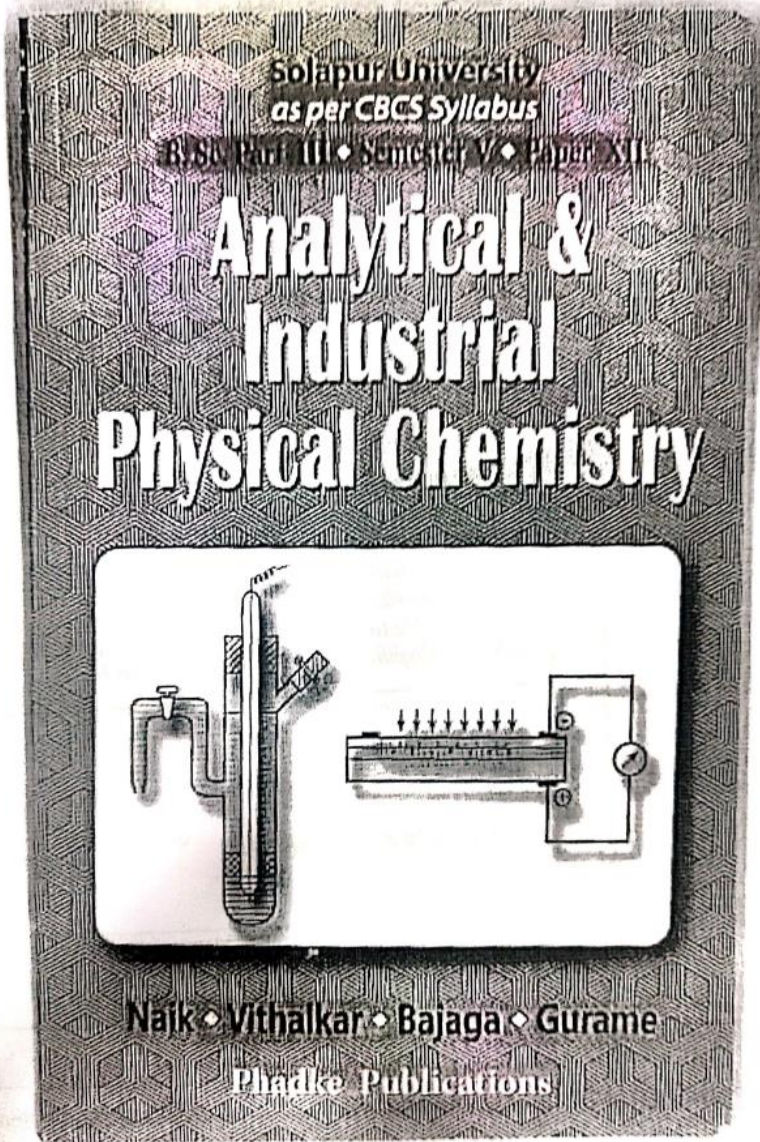


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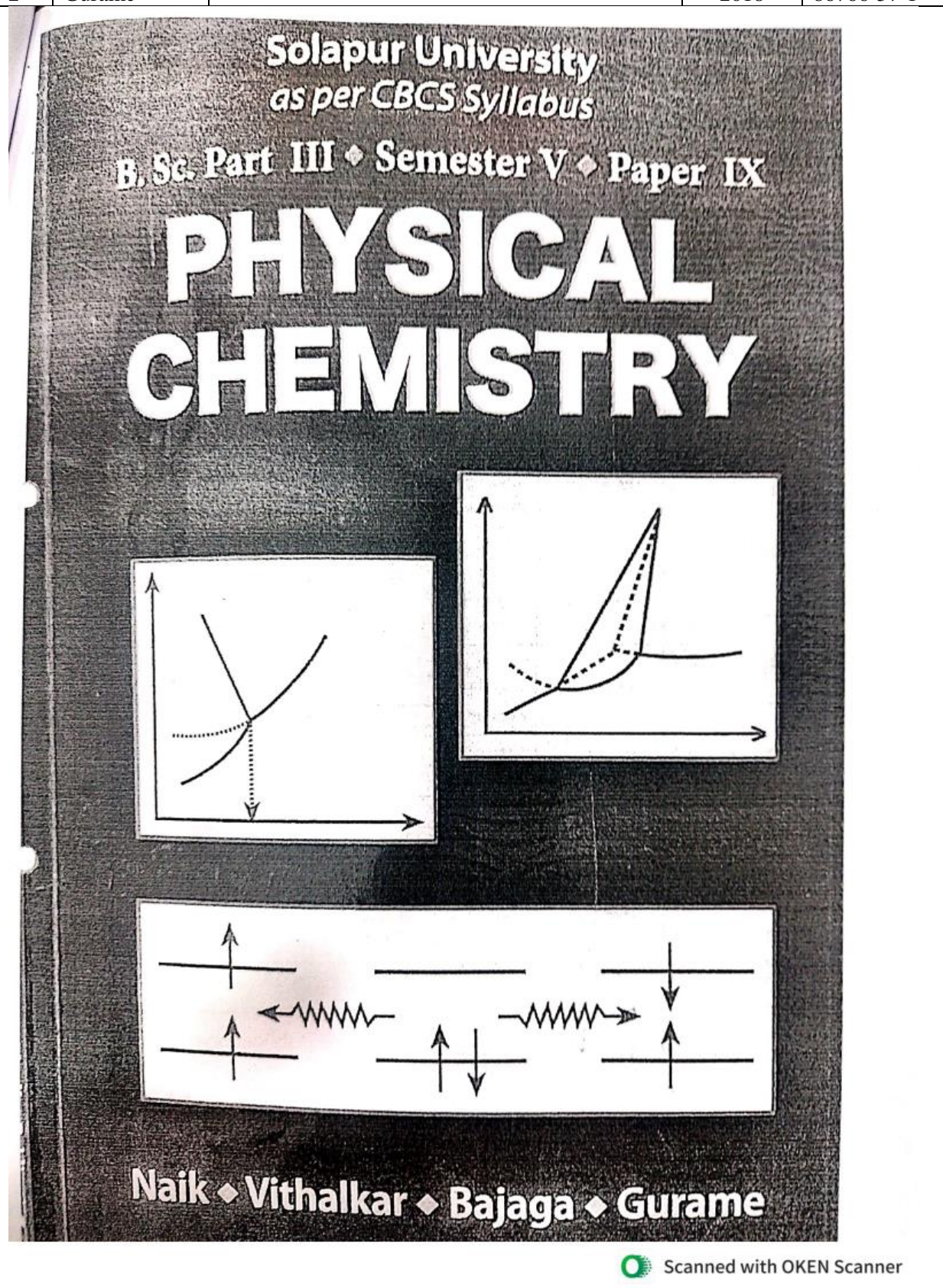
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CHEMISTRY PAPER XIII

PHYSICAL CHEMISTRY

by

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4	Dr. Yuvraj Hari Navale	NO ₂ Gas Sensor Based on ZnO Nanorods Synthesised by Thermal Evaporation Method (Techno-Societal 2018)	2018	978-3-030-16961-9.
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NO₂ Gas Sensor Based on ZnO Nanorods Synthesised by Thermal Evaporation Method



Y. H. Navale, S. M. Ingole, R. N. Dhanawade, A. S. Salunkhe, and V. B. Patil

Keywords ZnO · Nanorods · xrd · Sem · Nitrogen dioxide gas

1 Introduction

Nowadays, the efficient and low cost gas sensor setups are required for recognition and quantification of toxic gases because of increasing in environmental air pollutions. The key reasons of air pollutions are extensive industrialization activities, such polluted air is enormously damaging to living organisms and to biodiversities circumstances also [1, 2]. Hence, to protect biodiversity and living organisms; gas sensors setups have been measured capable substitutes for the detection of environmental pollutions. NO₂ is a very injurious gas among the other gases (CO, CO₂, H₂S, SO₂ etc.), and it is extremely damaging at very low concentration [3]. The lethal NO₂ gas is released largely from the automobiles, industrial factories, home heaters, power plants and furnaces also. Thus, it is necessary to buildup an immensely responsive, selective toxic NO₂ gas sensors, which can be bright to sense very low concentrations of gas through ideal gas sensing concerts. This kind of gas sensors can be worn to the supervising fruitful ecological conditions.

In the earlier period, various types of sensors were fabricated for the detection of toxic gases by using different kinds of sensing resources and a variety of materials. For gas-sensing the major used materials are semiconductor metal oxides, conducting polymers, composites of semiconductor metal oxides, and conducting polymers, and other new materials. Such materials can be sensible on diverse sensing principles including chemiresistive, quartz crystal microbalance, surface acoustic wave and MOSFET (metal oxide semiconductor field effect transistor) [4, 5]. A chemiresistive metal oxide semiconducting are the largely used prospective contender because of its low cost, lofty sensitivity, hasty response-recovery time, high stability, reproducibility and effortless electronic interface [6, 7]. Semiconducting metal oxides have two types i.e. n-type, where majority charge carrier are electrons and p-type, where holes are

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5	Dr. Yuvraj Hari Navale	High-Performance Potentiostatic Electro- Polymerized Polypyrrole (PPy) Electrode for Electrochemical Performance,(Techno-Societal 2018)	2018	978-3-030-16961-9.
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High-Performance Potentiostatic Electro-Polymerized Polypyrrole (PPy) Electrode for Electrochemical Performance



S. M. Ingole, Y. H. Navale, Y. M. Jadhav, A. S. Salunkhe, and V. B. Patil

Keywords Polypyrrole · Potentiostatic electrodeposition · XPS · SEM · Cyclic voltammetry · Impedance

1 Introduction

In recent years, electrochemical super capacitor (ESs) has been considered as one of the most expansively investigated energy storage devices as a result of its fast charging ability, high cyclic stability, and low maintenance cost [1–3]. ESs are primarily used in a variety of high power equipments, essentially where fast charging is desirable, like hybrid electric vehicles, laptops, and cellular phones. ESs has the capacity to fulfill the gap between capacitors and batteries. ESs are mainly divided into two types, on account of the charge storage mechanism and the electrode materials used, such as electric double layer capacitors (EDLCs) (wherein carbon materials with large surface area are utilized as electrodes) and pseudo-capacitors (in which electro-active materials for instance conducting polymers (CPs) or transition metal oxides are applied as electrodes). Generally, EDLCs consists of higher power density but it suffers from low capacitance and low rate capability. On the other hand, pseudo-capacitors employ fast and reversible surface or close to surface reactions for charge storage. As a result, pseudo-capacitors, based on conducting polymers and transition metal oxides, could provide higher specific capacitance to the active materials when compared with EDLCs. The electrodes made from metal oxides showed a high specific capacitance, according to literature survey, and rate capability hypothetically. However, a key constraint of the metal oxide based

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6	Dr. Yuvraj Hari Navale	Hydrothermally Synthesised ZnO Nanostructure: Highly Sensitive Towards NO ₂ Gas,(Techno-Societal 2018)	2018	978-3-030- 69924-6
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Hydrothermally Synthesised ZnO Nanostructure: Highly Sensitive Towards NO₂ Gas



P. R. Godse, Y. H. Navale, Y. M. Jadhav, R. N. Mulik, and V. B. Patil

Abstract ZnO nanorods structures with low dimensions were prepared by aqueous solution monitored through self-assembled hydrothermal method. The hydrothermally grown ZnO nanorods were explored by primarily X-ray diffraction (XRD), field-emission scanning electron microscopy (FESEM) and contact angle. The ramification conveys that the ZnO nanorods were collected of high-aspect-ratio nanorods. Additionally, measurement of gas-sensing properties carried out for various concentration of gas viz 5–100 ppm, which validates that the ZnO nanorods were of good selectivity and response to poisonous NO₂ and could set out for NO₂ sensor to detect low-concentration NO₂.

Keywords ZnO · FESEM · Low dimensional nanostructures · NO₂ detection

1 Introduction

Disturbed environment due to rise of venomous gases such as NH₃, F₂, CO, Cl₂, CH₄, NO₂, CO₂, SO₂, and NO₂ in the environment is a utmost worry in the world. Gases emitted by vehicles, burning of agriculture products, volcanic activity etc., are reasons for environmental pollution. In addition, Due to day to day modifications in the system of industrialization causes the rise in the emission of harmful gases is one of the reasons of pollution. Out of the emission gases, NO₂ gas shows major contribution of pollution and attempts are being made worldwide for its detection and control. For this issue, efforts have been made to produce high quality NO₂ gas sensors for detection of the emission gases [1–5].

As high surface to volume ratio materials, ZnO has been extensively scrutinized for its dormant applications [6]. Outstandingly it can be utilized in harmful, poisonous and highly flammable gas sensors [7–9]. For gas sensor applications, ZnO is one of

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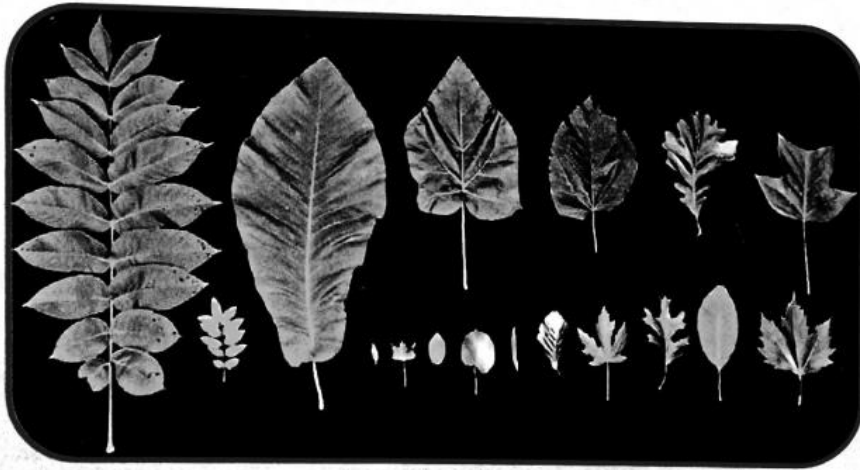
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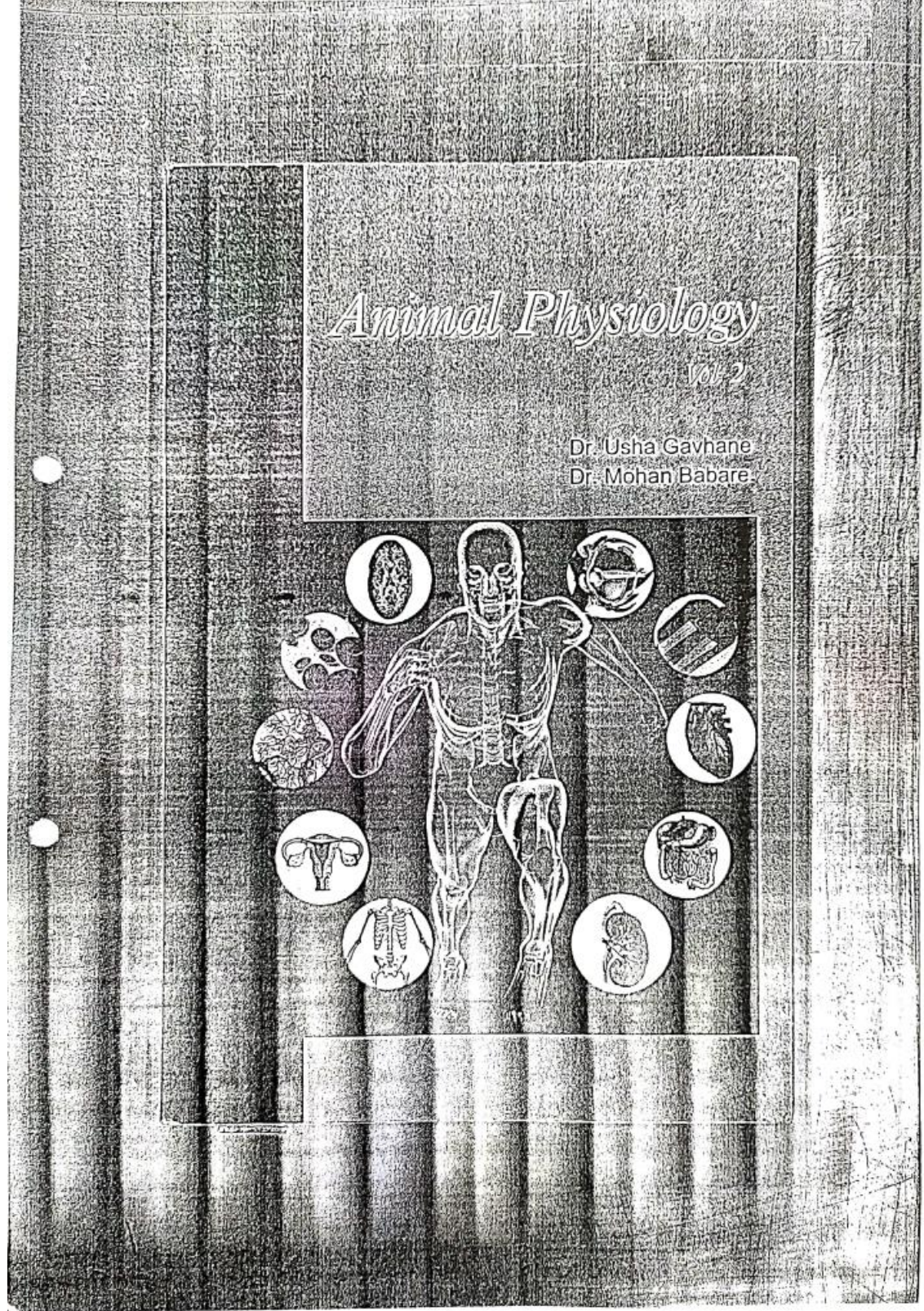
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Structural Study of Mn Dopant and Optical Behaviour of Fe₂O₃ Nanoparticles

S. U. Pawar, R. K. Rajure, S. D. Waghmare, R. R. Kothawale*

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ABSTRACT

Structure of Photocatalytic materials play an important role in the field of renewable energy such as artificial photosynthesis, solar cell etc. Hence, to improve photocatalytic performance via optical property is one of the challenging points in these days. Iron oxide (Fe₂O₃) with direct and indirect band gap has been extensively studied by many researchers in past years due to its excellent physical properties. However, in the field of photocatalysis this material is being ignored because of fast electron-hole recombination rate. This problem can be overcome by doping with suitable and appropriate amount of dopant material. In this report oval shaped Mn doped Fe₂O₃ nanoparticles have been successfully synthesized by simple hydrothermal method. Different (1, 2 and 3) mol% Mn were doped into Fe₂O₃ and its existence was confirmed by EDAX and XPS. The effect of dopant on crystal structure and morphology was studied by X-ray Diffraction and SEM, TEM respectively. The optical properties of synthesized Mn doped Fe₂O₃ nanoparticles were measured by diffuse reflectance spectra.

I. INTRODUCTION

Structural study of nanoparticles which is intermediate between the bulk and atomic/molecular system. Nanoparticles show different properties than the bulk and atomic system which are very useful in various fields like medicine, healthcare, engineering, agriculture, electronics, defense etc. Hence the study of those properties of nanoparticles such as optical, mechanical, thermal, catalytic and magnetic is very interesting and exciting [1-2]. Various well established physical and chemical methods have been used to synthesis nano materials in different shape and size. Here nanoparticles are synthesized by simple hydrothermal method. Artificial photosynthesis replicate the natural process of photosynthesis that converts water and carbon dioxide into carbohydrates and oxygen using sun light as the energy source.

Photocatalytic material play an important role in the field of renewable energy such as artificial photosynthesis, solar cell etc. Hence to improve photocatalytic performance via optical property is one of the challenging points. Iron oxide (Fe₂O₃) with direct and indirect band gap has been extensively studied by many researchers in past year due to its excellent physical properties [3-6]. Fe₂O₃ has wide applications such as ferrofluids, refrigeration, magnetocaloric and biomedical fields. Metal doped nanostructure Fe₂O₃ crystal is highly desirable. These dopant play important role to improve the optical absorption coefficient, donor density, electrical conductivity and flat band potential. In this work Mn is doped in Fe₂O₃ which is synthesized by hydrothermal method. The prepared samples were characterized for crystal structure by X-ray diffraction, surface morphology by Scanning Electron

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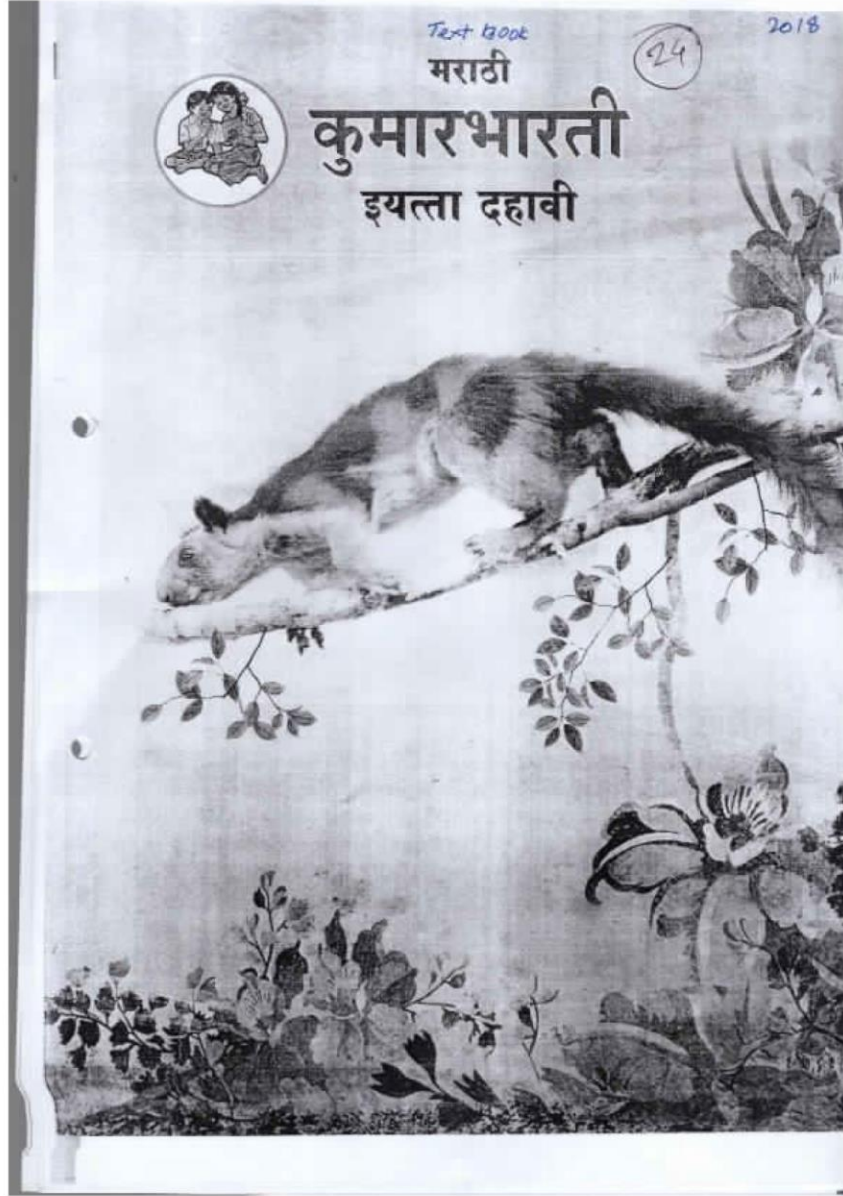
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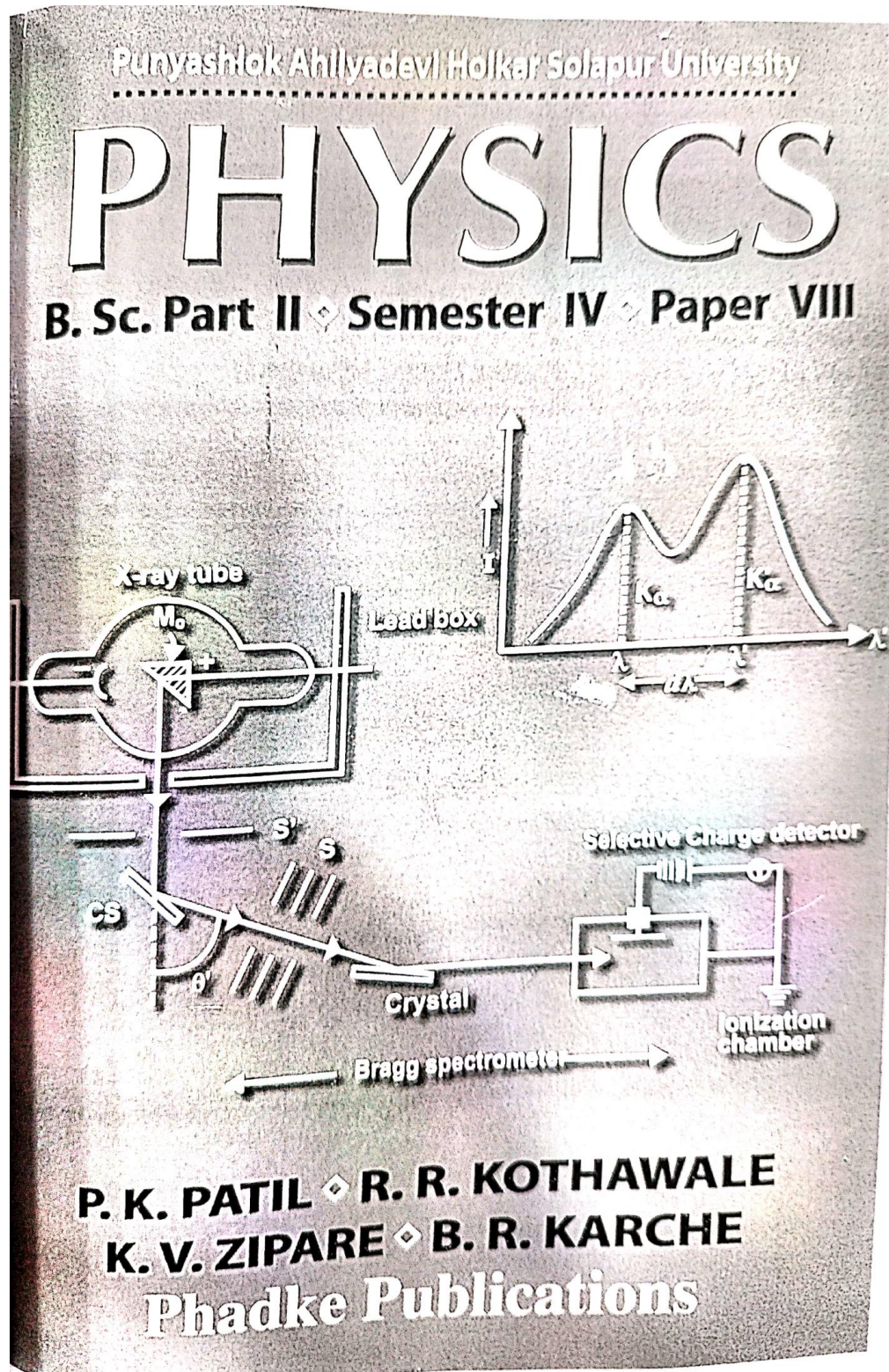
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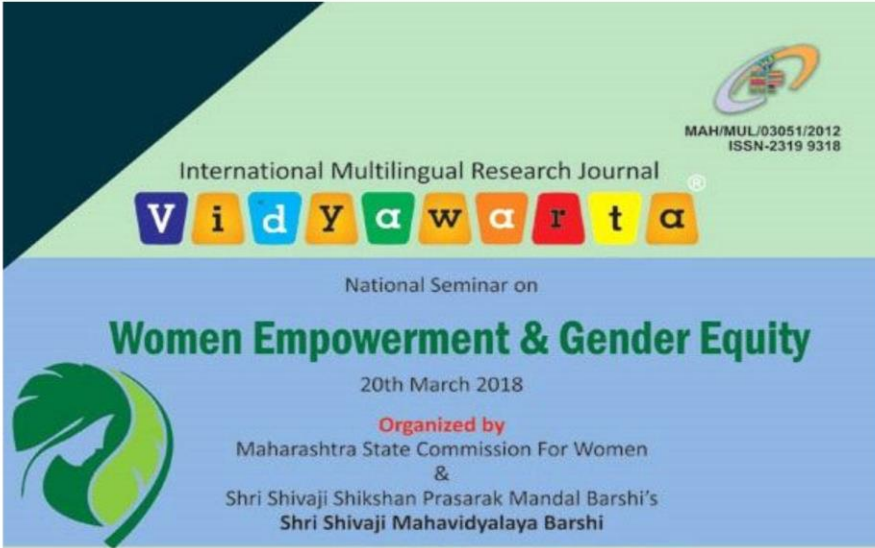
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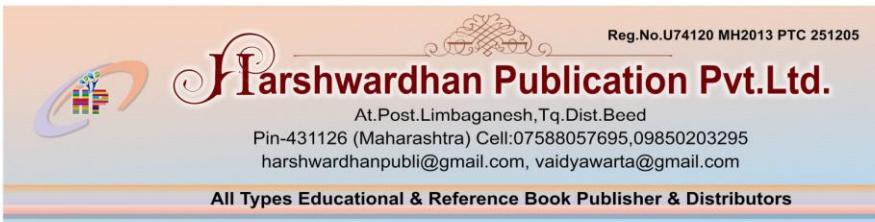
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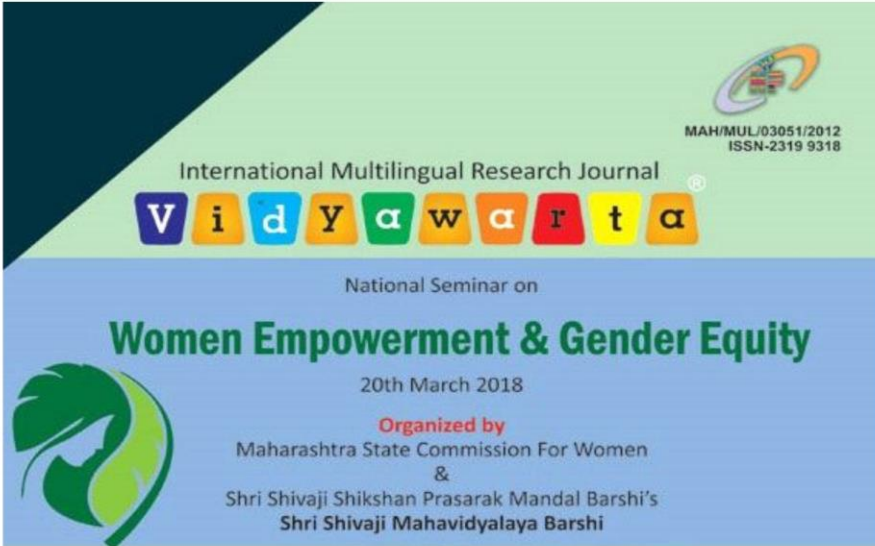
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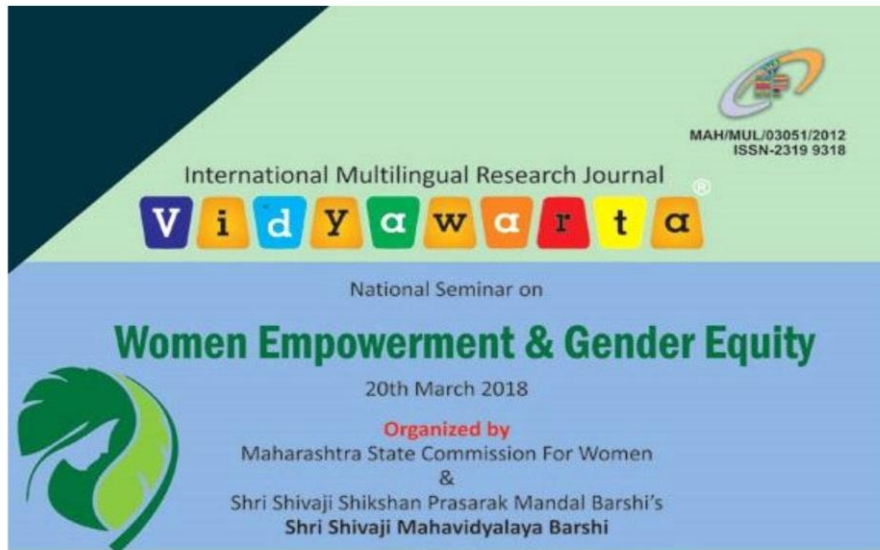
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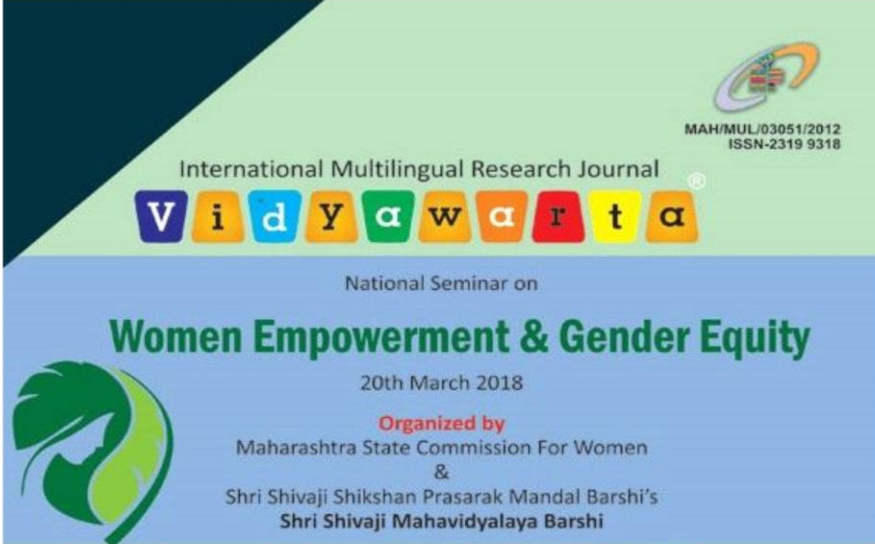
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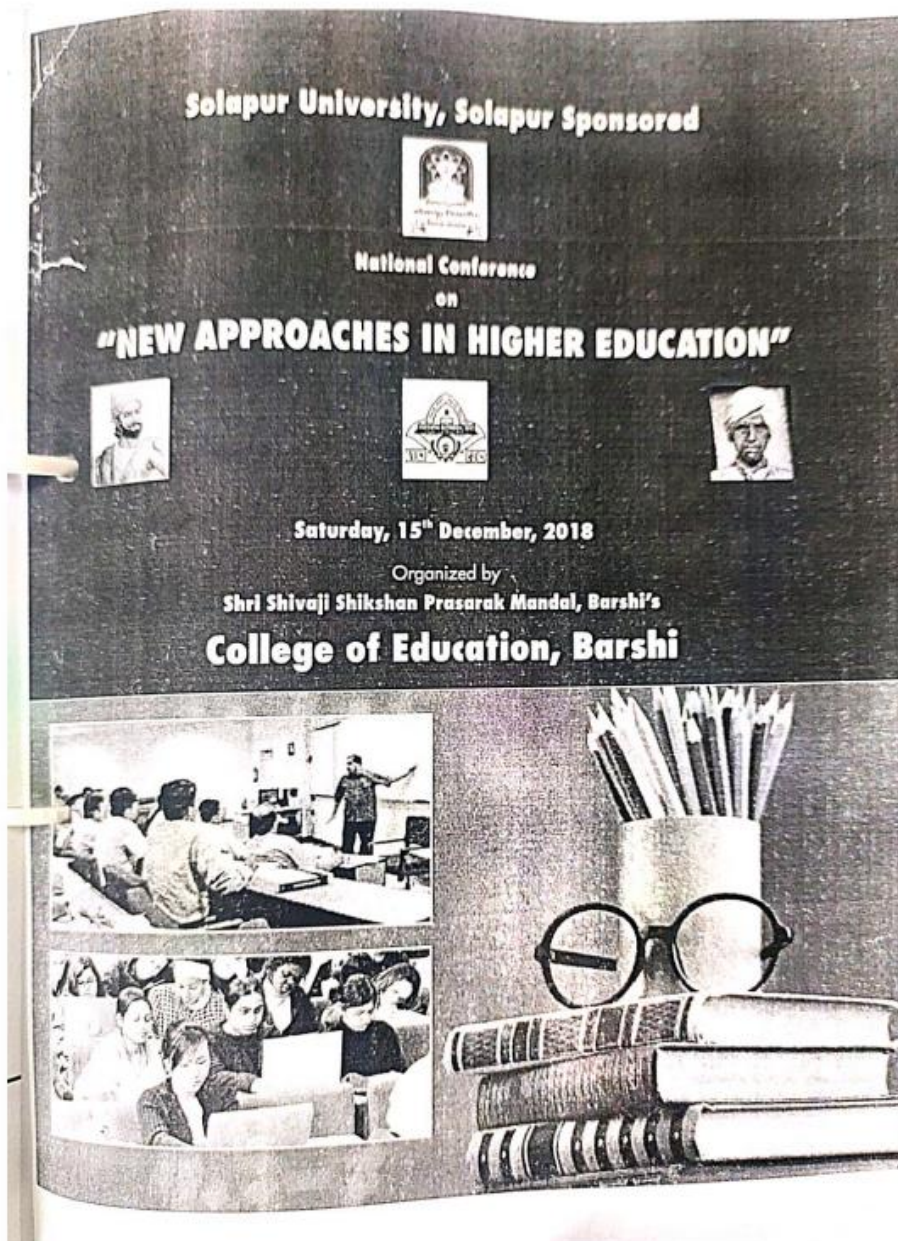
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31	Dr. Nimbalkar Vijayanand Shivlal	Study of Effectiveness of Trataka and pranayama on Performace of Junior College air rifle shooting players	New approaches in higher education	2018	978-93-86 -013-80-6
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Shri Shivaji Shikshan Prasarak Mandal Barshi's

B. P. SULAKHE COMMERCE COLLEGE, BARSHI
(NAAC Re-accredited with "B" Grade)
PUNYASHLOK AHILYADEVI HOLKAR SOLAPUR UNIVERSITY, SOLAPUR
Sponsored
One Day Interdisciplinary National Seminar
on
Communication and Technology for Trade, Commerce, Management, Leadership and Governance
in Association with
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This is to certify that Dr./Mr./Mrs./Ms Klimbalkar Vijayanand Shivlal.
Of Shri. Shivaji Mahavidyalaya, Barshi
attended the One Day Interdisciplinary National Seminar on Communication and Technology for Trade, Commerce, Management, Leadership and Governance organized by the INTERNAL QUALITY ASSURANCE CELL (IQAC), B. P. SULAKHE COMMERCE COLLEGE, BARSHI on 17th February 2020, as a registered delegate.

He / She chaired the session/ presented a paper entitled Study of Effectiveness of Trataka Yoga on performance of Junior college Archery players in Solapur District.

Dr. S. B. Karande (Convener) Dr. A. B. Kadam (President- SETO) Dr. S. K. Patil (Principal)

32	Dr. Vijayanand Shivalal Nimbalkar	Effect of Yogic exercise for progress of physical fitness and performance on kabaddi game ju player men and women 19	Emerging trend of Physical Education and sports and science	2018	978-93-82606-09-3
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Emerging Trends of Physical Education and Sports Science ISBN: 978-93-82606-09-3

EFFECT OF YOGIC EXERCISE FOR PROGRESS OF PHYSICAL FITNESS AND PERFORMANCE ON KABADDI GAME OF JUNIOR PLAYERS MAN AND WOMEN UNDER 19

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Shri. Shivaji Mahavidyalaya, Barsi
Tq. Barshi, Dist. Solapur, Maharashtra

Abstraction :

Kabaddi is an India game. It is game of speed, strategy and most important lungs power. It is team game with no quipment breathe helthing out which tones up the brain. Kabaddi fewers body development with amusenlar strength , strings, and endurance. The present study is feses on measring skills of kabbadi players, creating yogic programmer for under 19 Naygen and comparing their performance on previews data. Yoga is science of experencing self energy. Yoga help in controlling our mind incresing concentration and balancing between body and organs.

Keywords:Kabaddi , Yoga, Endurance, Firmess

Introduction:

In accident times society was happy and healthy, that time yoga excersise was daily routine. Ordinary people were not using it in recent times. Due to research and study done by the scientists it gave yoga a platform. Controlling our mind, increasing concentration balance between body, sense organs and soul and attempting this situation is the entrancement of <samadhi>.

Yoga helps in developing happy society mind has different sates. They can be seen by deep observation. Yoga is science of experencing. Experencing self energy and realiring power of mind. Yoga is been used in physical education and sports field. Studies shows yoga is useful in maintaing physical maintaing physical and mental heath. To develop physical health and sports performance physically ability stamina endurance, flexibility, strength, balance skill, brathing ability, mental stabillity deceison making etc things required. Yogic studies help to developm physical ability and other skills if has been provide by studies.

Kabaddi is an Indian game. Its priview name was 'Hu tu tu'. It has also different region. Kabaddi it game of speed, streangth, stretegy and most importancy linguwers. Two team required to play this game. Only seven players per team are on the playing field. One team strearts outon oofence and two team alternate and the two affence and defence each term until the game over.offening team sends out their rainer to the energy side of the field. Where the must try to touch as many empowering team .. as possible before retuting safety to his side of court he must after all this time " Kabaddi, Kabbadi, if he makes it back to safty in one breath , every one to tagged has to leave and the affense getsa point for each of them.

Object of the Study :

- To help to develop performance and skills of kabbadi players
- To conduct physical fitness test for kabbadi players men and women under 19 in Barshi town.
- To prepare yogic exclese program for Kabbadi player under 19
- To conduct Yogic exercise programe for Kabbadi player und 19.
- To analyse pre and post difference in performance of Kabbadi players under 19 in Barshi after doing Yogic exercise.

Need and Significane of Study :

The present study will be preperier effect in establishing physical fitness and evoluving performance of Kabbadi player 19. Piece of research will help in analysing physical fitness and performances norms developed can be generalized for the performance of their kabbadi players will be able to know the state of physical fitness. They will gear upto achiver his performance provided in the matches. This study will help them achieve targets and keep them physically fit and motivated.

The coaches will find it easy and will use it for their pla physical fitness.

Assumption :

- Players will take part in Yogic program activity.
- Players will take part in physical fitness test.
- All the instrument used in research are stand d.

Materials Contents :

- Score shut
- Helper
- Bom tape
- Stopwatch
6. Chair,
7. table
8. Pen, Pencil, F

Materials Contents :

Research which is related to the future procler experimental method is used.

Research Process :

The resourch ininvolved Kabbadi player of un solapur district. 200 players were randomly reaserach ot of 100 boys and 100 girls. They are information about test and Yoga and physical ex

Kabbadi	Experimental	Control	Age
Players	Groups	Groups	Groups
Boys	50	50	Under 19
Girls	50	50	Under 19

As above two group of experimental and two Kabbadi game formed.

-175-

33	Dr.Fartade Asawari Madhukar	Studies on the biodiversity of ptychobothridean parasite from fishes	2018	978613990- 3443
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Dr.Asawari Fartade (Ed.)

Studies on the biodiversity of ptychobothridean parasite from fishes

Studies on Biodiversity of ptychobothridean parasite
from fishes

Fartade

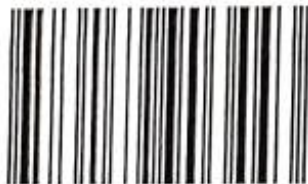
Fartade (Ed.)



This book content five chapters comparing to references which focus on biodiversity of ptychobothridean parasite in fishes Such as senga, circumoncobothrium .Their identification and adverse effect on host i.e different economical important fishes from Godavari Basin. Biochemical part include estimation of glycogen, protein and lipid. Histopathology shows the pathological condition of host infected due to parasite.Population dynamics shows different seasonal fluctuation of parasites in different month . In all research focus the biodiversity of fish parasite and how they effect their economical and medicinal value due to parasitic infection.



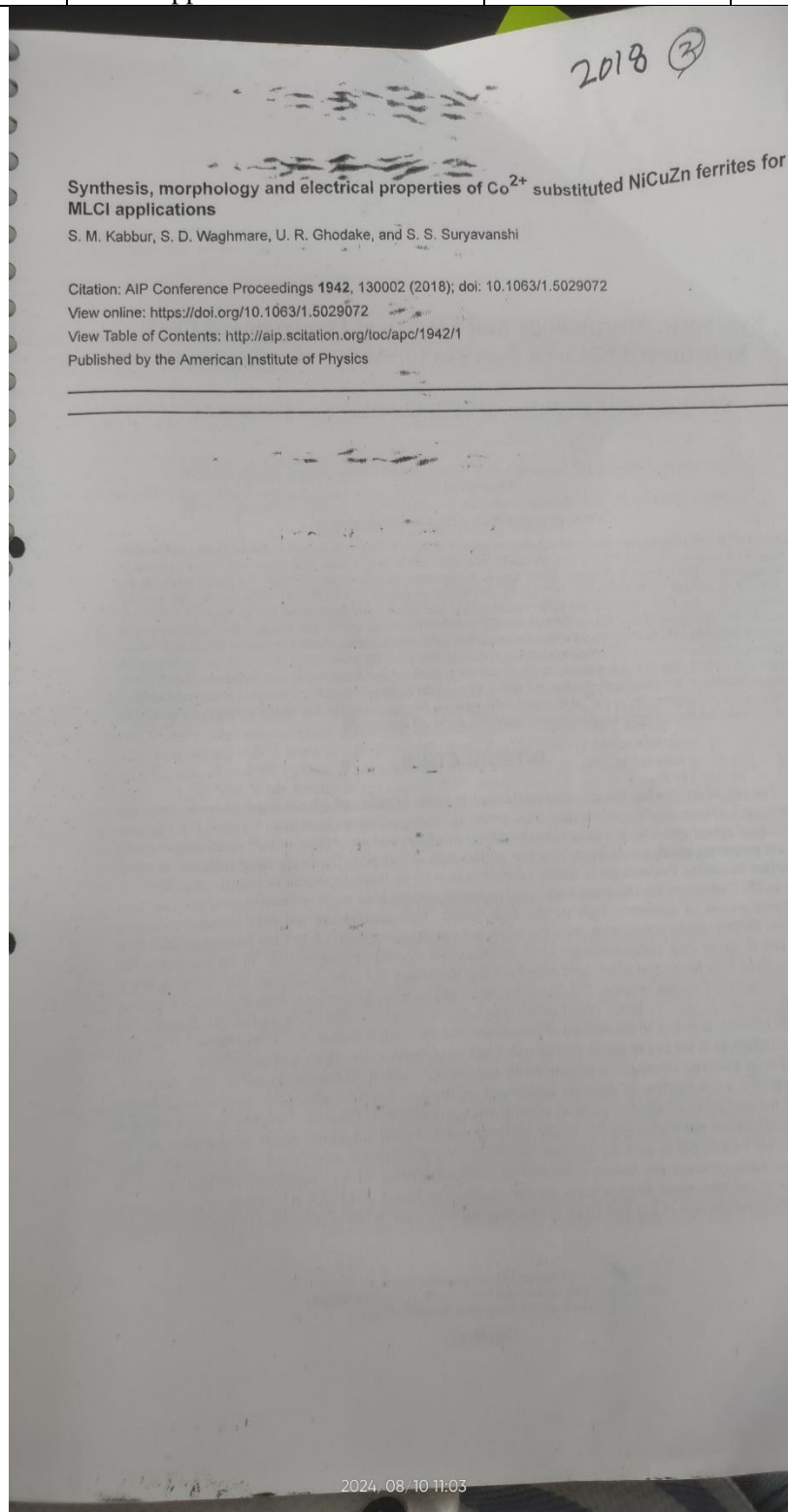
Dr.Asawari Madhukar Fartade is working as a Women Scientist and Assistant professor of Zoology in Shri Shivaji Mahavidyalaya,Barshi .2 national paper and 18 International paper in reputed journal .Attended 22 International conference in the concerned subject. .Author is also life member of ISCA and Society of development in new life science .



978-613-9-90344-3

Fartade (Ed.)

34	Dr S M Kabbur	Synthesis, morphology and electrical properties of Co ²⁺ substituted NiCuZn ferrites for MLCI applications	AIP Conference Proceedings	2018	130002
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35	Prof U R Ghodake	Effect of Dy substitution on the structural and gas sensing properties of BiFeO ₃	IOP Conf. Series: Materials Science and Engineering	2018	1757-899x
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Second International Conference on Materials Science and Technology (ICMST 2016) IOP Publishing
 IOP Conf. Series: Materials Science and Engineering 360 (2018) 012063 doi:10.1088/1757-899X/360/1/012063

Effect of Dy substitution on the Structural and Gas sensing Properties of BiFeO₃

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Abstract

Facile synthesis of Dy substituted BiFeO₃ were employed using Glycine combustion method. X-ray diffraction (XRD) and Scanning electron microscopy (SEM) were employed to characterize the structure and morphology of the material. The effect of Dy doping on the crystalline structure, morphologies and gas sensing properties of the final products have been investigated. The gas sensing properties of Bi_{1-x}Dy_xFeO₃ (x=0.00, 0.05) materials for semiconductor gas sensors are presented. For composition with x=0.05, sensor exhibited highest response (87%) towards acetone vapor at an operating temperature 250°C. The response and recovery time of the sensor for x=0.05 were quite low (5sec and 40sec) respectively.

Keywords: Multiferroic, Glycine combustion method, Selective acetone sensor.

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(Prof. Sharad Shivaji Suryavanshi)

1. Introduction

In recent years, a rhombohedrally distorted perovskite (ABO₃) type BiFeO₃(BFO) have been investigated for the multiferroic properties. Due to the interesting physical properties of BFO, it acts as a potential applicant for future technological applications¹⁻³. For the formation of BFO nanoparticles we adopted the superficial glycine combustion method⁴⁻⁵. In this short communication, we discuss the effect of Dy substitution on the structural, morphological and gas sensing properties of BFO.

2. Experimental details

BiFeO₃(BFO) and Bi_{0.95}Dy_{0.05}FeO₃(BDFO) nanoparticles were synthesized by using metal nitrates and glycine as a starting materials. This mixture was dissolved in 100ml distilled water with vital magnetic stirring for 30min, which is maintained at constant 70°C temperature. Whereas one more solution with 5% Dy doped BFO sample was also prepared. The precursor solution was kept on the heater, which undergoes a flameless combustion and the fluffy foam of our final product was obtained⁴. The grinded calcined powder was used for the pellet formation. The final pellet samples were sintered at 650°C and silver contacts were drained from it for the measurement of gas sensing properties. In presence of reducing gases the P-type materials showed that the change in its electrical resistance. The gas sensing properties of the BFO and BDFO samples sintered at 650°C were studied at various temperatures in the range of 200-450°C. The resistance of the sample was measured by two-probe dc measurement technique and the sensitivity of sensor for reducing gases were

calculated by following formula as⁶:
$$S(\%) = \left[\frac{R_{g2} - R_a}{R_a} \right] \times 100$$

36	Dr. Jamale Dattatraya Kashinath	An efficient and eco-friendly synthesis of 1,4-dihydro-1,8-naphthyridine-3-carbonitrile derivatives in aqueous media	Int. Res. J. of Science and Engineering	2018	2322-0015
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ISSN: 2322-0015 UGC Approved Journal No. OPEN ACCESS

SEARCH ARTICLE

An efficient and eco-friendly synthesis of 1,4-dihydro-1,8-naphthyridine-3-carbonitrile derivatives in aqueous media

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ABSTRACT

A green protocol for the synthesis of pharmacologically interesting scaffolds 1,4-dihydro-1,8-naphthyridine-3-carbonitrile derivatives has been developed through condensation of aromatic aldehyde, malononitrile and 2-pyridine using DAHP (Diammonium hydrogen phosphate) in aqueous ethanol (water 10 mL and ethanol 5 mL) at room temperature. This efficient and eco-friendly procedure offers prominent advantages such as mild reaction conditions, excellent yields and easy workup.

Keywords: Multicomponent reaction, 1,4-dihydro-1,8-naphthyridine-3-carbonitrile, DAHP, 2-amino pyridine.

INTRODUCTION

Nitrogen containing heterocyclic compounds found extensively in nature and are necessary to life. Among nitrogen based heterocycles, pyridine is one of the most important scaffolds constitute the largest portion of chemical libraries which are part of many natural products, biological compounds and fine chemicals [1-2].

Naphthyridine derivatives are one of the most important classes of compounds due to their widespread occurrence. They are key structural subunits in numerous natural products and exhibit many interesting biological activities. 1,4-dihydro-1,8-naphthyridine derivatives possess a prominent place in

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37	Dr. Parase Bira Dashrath	Suresh bhatanchya kavitetil samajikta	Vidyawarta	2018	2319-9318
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10

‘सुरेश भट’ यांच्या कवितेतील सामाजिकता

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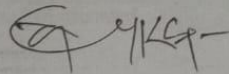
डॉ. देविदास गेजगे
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समीर गांधी कला महाविद्यालय, माळशिरस जि. सोलापूर

प्रस्तावना :-
सुरेश भट यांनी नवकवितेच्या जमान्यात नुसत्या निरनिरव्या रंगाचेच नव्हे, तर निराळ्या अंतरंगाचे दर्शन घडविले आहे. स्वातंत्र्यानंतर सामाजिक परिस्थितीमध्ये फोणतेही विशेष परिवर्तन घडलेले दिसत नाही. स्वातंत्र्याच्या नावावर ठराविक लोक स्वतंत्र झाले, त्यांना मात्र संपूर्ण देश चालविण्याची संधी मिळाली. देशातील लोकशाहीमध्ये साम्राज्यवादाची बीजे रोवली गेली आणि समाज उच्च, मध्यम आणि गरीब वर्गांमध्ये विभागला गेला. त्यामुळे विषमता निर्माण होऊन आर्थिक स्तर निर्माण झाले. त्यामुळे सर्वसामान्य जनता आणि सर्वसामान्य जनता यांची जगण्यातील घडपड सुरेश भटांच्या कवितांचा विषय बनताना दिसते.

सुरेश भट यांची कविता आणि सामाजिकता :-
सुरेश भट यांनी त्यांच्या रूपगंगा, ‘रंग माझा वेगळा’, ‘इंद्रावात’, ‘एल्गार’ या कवितासंग्रहांमधून सामाजिक जाणियांचे यथार्थ चित्रण केलेले आहे. कविना सर्वसामान्य जनतेची दुःखे आणि निराशावाद अस्वस्थ करतो. त्यामुळे ते सामान्य माणसाला चेतवताना म्हणतात,
“माणसांच्या मध्यरात्री,
हिंडणारा सूर्य मी,
माझियासाठी न माझा,
पेटण्याचा सोहळा...”

सुरेश भटांची सामाजिक कविता सर्वसामान्य दरीद्री माणसांपासून ते मध्यमवर्गिय, उच्च श्रीमंत वर्ग तसेच स्वार्थी

विद्यादाता: Interdisciplinary Multilingual Refereed Journal Impact Factor 6.021(IJLIF)



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39	Dr. Jadhav Subrao Namdeo	विश्व में हिंदी पत्र-पत्रिकाएँ	Current global Reviewer	2018	2319 – 8648
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Multidisciplinary National Conference
Organizer-IQAC, K. N. Bhise Arts and Commerce College, Kurduwadi, Dist- Solapur (M.S.)
17 Feb. 2018

विश्व में हिंदी पत्र-पत्रिकाएँ

डॉ. सुब्राव नामदेव जाधव
श्री शिवाजी महाविद्यालय, बार्शी
हिंदी विभाग,
मो.नं. 9011233426

मजदूर के रूप में विदेशों में जाकर बसने वालों में प्रमुख लोग हिंदी बोली भोजपुरी के क्षेत्र के लोग रहे हैं। भोजपुरी क्षेत्र पूर्वी उत्तरी प्रदेश तथा पश्चिमी बिहार में फैला हुआ है। हिंदी बोलियों में सबसे बड़ा क्षेत्र भी यही है तथा यहाँ की जनसंख्या भी बहुत ज्यादा है। इस समय तो छ करोड़ से भी ऊपर है। जन संख्या के आधिव्य के कारण ही इस प्रदेश में बहुत गरीबी है, और इरीडिए इस प्रदेश के लोग कलकत्ता बंबई तो जाते ही हैं, उन्हें अपनी रोजी-रोटी कमाने के लिए देश के बाहर जाकर बस जाने में भी कमी हिचक नहीं हुई।

इन लोगों के बाहर जाने का सिलसिला 19 वीं सदी के प्रथम चरण की समाप्ति के प्रायः दस वर्ष बाद शुरू हुआ और दिसंबर 1934 में सबसे पहले ये मजदूर जहाज से मारिशस द्वीप में पहुँचे और तभी से हिंदी महासागर का यह द्वीप धीरे-धीरे सम्पन्न होता है, सम्पन्नतर होता जा रहा है।

इसके बाद तो यह सिलसिला चलता ही रहा। कालक्रमानुसार देखें तो मारिशस के नौ वर्ष बाद 1845 में इसी तरह के मजदूर त्रिनिदाद, 1860 में दक्षिणी अफ्रीका, 1870 में गुयाना, 1873 में सुरीनाम तथा 1879 में फीजी पहुँचे।

ये लोग मुख्यतः भोजपुरी –भाषी थे किंतु भोजपुरी सीमा से लगे अक्की प्रदेश से भी कुछ लोग एक साथ ही भारत के कुछ अन्य क्षेत्रों से भी कुछ लोग। इन सभी को 'गिरमिटिया' कहते हैं। 'गिरमिटिया' अंग्रेजी –'एग्रिमेंट' तथा हिंदी प्रत्यय 'इया' से बना शब्द है और इसका अर्थ है जिसके साथ कुछ समझौता हुआ हो। सरकार से इनका कुछ शर्तों के शर्तों के बारे में ऐग्रिमेंट होता था।

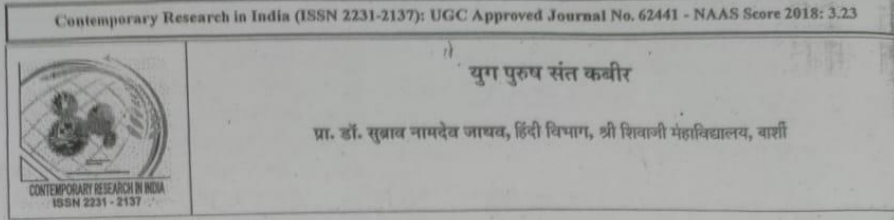
वैसे तो लोक प्रतिभा कहीं नहीं होती, किंतु प्रायः हिंदी प्रदेश के जिस भूभाग से भारत के बाहर गिरमिटिया लोग गए थे, वह वही क्षेत्र है जहाँ कबीर ने अपनी सशक्त साधियों और पदों की रचना की थी, तुलसी ने अपना मानस लिखा था, भारतेन्दु ने आधुनिक हिंदी की शुरुआत की थी, प्रसाद ने कामायनी, प्रेमचंद ने गोदान, शुक्ल जी ने चितामणि तथा राहुल सांकृत्यायन एवं हजारीप्रसाद द्विवेदी आदि ने अपने अपने कथा साहित्य का सृजन किया। साहित्यिक सर्जना में इसकदर सम्पन्न धरती से प्रवास में गए अशिक्षित अल्पशिक्षित लोगों ने अपने अपने क्षेत्रों में जाकर यदि साहित्य सृजन किया और पत्र पत्रिकाएँ निकाली तो अजब नहीं। यही हुआ। धीरे धीरे प्रवासी भारतीयों ने कई देशों से पत्र पत्रिकाएँ निकाली और वहाँ के कुछ निवासियों ने भी इस दिशा में काम किया जो हिंदी प्रेमी थे।

मारिशस

ऊपर संकेतित सभी देशों में हिंद की दृष्टि से मारिशस सबसे आगे है। यही वह देश है जहाँ सबसे पहले हिंदी भाषा और साहित्य के प्रति जागरूकता आई और मार्च 1909 में वहाँ से 'हिंदुस्तानी' नामक साप्ताहिक पत्र का प्रकाशन प्रारंभ हुआ। इस पत्र की विशेषता यह थी कि इसमें एक साथ हिंदी, अंग्रेजी और गुजराती भाषाओं में सामग्री होती थी क्योंकि मारिशस में कुछ गुजराती भी पहुँच चुके थे। विदेश में इस 'आंशिक हिंदी पत्र' के संपादक डा. मणिलाल नाम के सज्जन थे। ये बहुत ही समर्पित व्यक्ति थे। इन्होंने पत्र शुरू किया था और इनके मारिशस छोड़कर भारत लौटत ही, जैसा कि स्वभाविक था, यह पत्र बंद हो गया। यह पत्र जब तक निकला मारिशस में राजनीतिक, साहित्यिक और सामाजिक चेतना जगता रहा। डा. मणिलाल ने ही उपर्युक्त पत्र का प्रकाशन प्रारंभ करने के एक वर्ष ही वहाँ आर्य समाज की स्थापना की, और एक प्रेस भी खोला। 1911 में उस प्रेस में 'मारिशस आर्य पत्रिका' नाम के एक साप्ताहिक पत्र का प्रकाशन शुरू हुआ। पहले तो यह पत्र ऐसे ही चलता रहा, किंतु 1916 में पत्र काशीनाथ किशोर इसके संपादक बने और इनके मनायोग से

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40	Dr. Jadhav Subrao Namdeo	युगपुरुष संत कबीर	Conterpoprory research in india	2018	2231-2137
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कबीर के जन्म के संबंध में अनेक प्रकार के मत प्रचलित हैं। काशी में स्वामी रामानंद का एक भक्त ब्राह्मण था जिसकी किसी विधवा कन्या को स्वामी जी ने पुत्रवती होने का आशीर्वाद भूल से दे दिया। फल यह हुआ कि उसे एक बालक उत्पन्न हुआ जिसे वह लहरतारा के ताल के पास फेंक आयी। धी नौरु नाम का जुलाहा उस बालक को अपने घर उठा लाया और पालने लगा। यही बालक आगे चलकर कबीरदास हुआ। कबीर का जन्मकाल जेट सुदी पूर्णिमा, सोमवार विक्रम संवत् १४५५ माना जाता है। कहते हैं कि आरंभ से ही कबीर में हिंदू भाव से प्रभित करने की प्रवृत्ति लक्षित होती थी जिसे उसे पालने वाले माता-पिता न दबा सके। वे "राम राम" जपा करते थे और कभी कभी माथे पर तिलक भी लगा येते थे। इससे सिद्ध होता है कि उस समय स्वामी रामानंद का प्रभाव खूब बढ़ रहा था और छोटे बड़े, ऊँच नीच, सब तुप्त हो रहे थे। अतः कबीर पर भी भक्ति का यह संस्कार बाल्यावस्था से ही यदि पड़ने लगा हो तो कोई आश्चर्य नहीं। रामानंद जी के माहात्म्य को सुनकर कबीर के हृदय में शिष्य होने की लालसा जगी होगी। ऐसी प्रसिद्ध है कि एक दिन वे एक पहर रात रहते ही उस (पंचगंगा) घाट की सीढ़ियों पर जा पड़े जहाँ से रामानंद जी स्नान करने के लिए उतरा करते थे। स्नान को जाते समय अँधेरे में रामानंद जी का पैर कबीर के ऊपर पड़ गया। रामानंद जी बोल उठे, राम राम कह। कबीर ने इसी को गुरुमंत्र मान लिया और वे अपने को गुरु रामानंद जी का शिष्य कहने लगे। वे साधुओं का सत्संग भी रखते थे और जुलाहे का काम भी करते थे।

पर आगे चलकर कबीर के राम रामानंद के राम से भिन्न हो गये। अतः कबीर को वैष्णव संप्रदाय के अंतर्गत नहीं ले सकते। कबीर ने दूर दूर तक देशाटन किया, हठयोगियों तथा सुफी मुसलमान फकीरों का भी सत्संग किया। अतः उनकी प्रवृत्ति निर्गुण उपासना की ओर दृढ़ हुई। अद्वैतवाद के स्थूल रूप का कुछ परिज्ञान उन्हें रामानंद जी के सत्संग से पहले ही था। फल यह हुआ कि कबीर के राम धनुर्धर साकार राम नहीं रह गये वे ब्रह्म के पर्याय हुए

दरथ सुत तिहूँ लोक बखाना।
राम नाम का मरण है आना।।

सारांश यह कि जो ब्रह्म हिंदुओं की विचारपद्धति में ज्ञान मार्ग का एक निरूपण था उसी को कबीर ने सुफियों के ढर्रे पर उपासना का ही विषय नहीं, प्रेम का भी विषय बनाया और उसकी प्राप्ति के लिए हठयोगियों की साधना का समर्थन किया। इस प्रकार उन्होंने भारतीय विशेष अंक: एक दिवसीय राष्ट्रीय चर्चासत्र 'संत साहित्याचे योगदान' ३ मार्च २०१८ (संत तुकाराम भिंड)

ब्रह्मवाद के साथ सुफियों के भावात्मक रहस्यवाद, हठयोगियों के साधनात्मक रहस्यवाद और वैष्णवों के अहिंसावाद तथा प्रपत्तिवाद के मेल करके अपना पंथ खड़ा किया। उनकी बानी में ये सब अव्यक्त रूप में लक्षित होते हैं।

यद्यपि कबीर की बानी 'निर्गुण बानी' है, पर उपासना क्षेत्र में ब्रह्म निर्गुण नहीं बना रह सकता। 'सेव्य सेवक भाव में स्वामी में कृपा क्षमा, औदार्य आदि गुणों का आरोप हो ही जाता है। इसलिए कबीर ने बच्चों में कहीं तो निरुपाधि निर्गुण ब्रह्म सत्ता का संकेत मिलता है, जैसे -
पंडित मिथ्या कहूँ विचारा। ना यह सृष्टि, न सिरजनहारा।।
जोति सरूप काल नहिँ उठैवों, बचन न आहिँ सरीया।।
थूल अथूल पवन नहिँ पावक, रवि ससि धरनि न नीरा।।
और कहीं सर्ववाद की झलक मिलती है, जैसे -
आपुहिँ देवा आपुहिँ पाती। आपुहिँ कुल आपुहिँ है जाती।।
और कहीं सोपाधि ईश्वर की, जैसे -
साई के सब जीव हैं कीरी कुंजर दोय।
स्पष्ट है कि कबीर में ज्ञानमार्गी की जहाँ तक बातें हैं वे हिंदु शास्त्रों की हैं जिनका संघ्य उन्होंने रामानंद जी के उपदेशों में रामानंद जी के उपदेशों से किया। माया, जीव, ब्रह्म, तत्त्वमसि, आत्मा, अहं (अष्टमेयुन) त्रिकुटी, छह रिपु इत्यादि शब्दों का परिचय उदाहरण द्वारा नहीं, सत्संग द्वारा ही हुआ, क्योंकि वे, जैसा कि प्रसिद्ध है, कुछ लिखे न थे। उपनिषद् की ब्रह्मविद्या के संबंध में वे कहते हैं -
तत्वमसी इनके उपदेश। ई उपनीसद कहै संदेश।।
जागबलिक ओ जनक संवादा। दत्तात्रेय वहे रस त्वादा।।
यहीं तक नहीं, वेदातियों के कनक कुंडल - न्याय आ व्यवहार भी इनके बच्चों में मिलता है -
गहना एक नक ते गहना, इन महै भाव न दूजा।
कहन - सुनन को दुई करि थापिन, इक निमाज, इक पुर इसी प्रकार उन्होंने हठयोगियों के साधनात्मक के साथ सहस्यवाद के कुछ सांकेतिक शब्दों (जैसे, चंद्र, सूर, नाद, बिंदु, औंधा, कुओं) को लेकर अद्भुत रूपक बोधे हैं जो सामान्य ज्ञान बुद्धि पर पुरा आतंक जमाते हैं; जैसे -
सूर समाना चंद्र में दहूँ किया घर एक।
धन का चिता तब भवा कछू पुरबिला लेख।।
आकासे मुखिँ औंधा कुओं पाताले पानिहारि

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12.

Ode to the West Wind: An Ecologically Conscious Poem

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Department of English,

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Basically, *Ode to the West Wind*, written in 1819, is a unique poem which is marked by the idiosyncratic perception of the physical nature. This nature is mighty and dangerous finally resulting in the preservation of the entire ecosystem. The representation as well as foregrounding of the physical nature is the core ecocritical tools of analysis which is strongly found in this poem. Shelley represents the natural world as a destroyer, creator and even preserver also. The nature has been rendered very powerfully than humans and here it is realized that the writing of the poet is ecologically conscious. Because the earlier poetry was androcentric, assigning superiority to the humans and undervaluing the natural world. Shelley's representation is a sound proof of the ecologically conscious writing which draws attention to the natural world. The wild west wind has been perceived as the autumn's breath who carries the withered leaves to their wintry bed. Those dead leaves are carried by the chariot of wind where they lie latent and after the first rain the process of germination begins. Those leaves are again referred as corpse which is essentially a human quality. The dreaming earth wakes up when the clarion of clouds blow the trumpets.

The wind which is a part of the physical nature or entire ecosystem symbolizes the power and poet's awareness of ecological issues as well environmental consciousness. In the subsequent stanza, the powerful wind creates scare and terrors from down the earth to the sky. The poet has sidelined the androcentric attitude to the ecocentric. The wild wind creates commotions in the sky forming the clouds and bursting the heavy rains lashing the landscape. The west wind is powerfully represented as the destroyer, creator and preserver which alludes the natural representation in a work of art. The biological nature itself is the supreme force. Here, the major thrust of the ecocritics is a sound proof of ecocentric analysis and interpretation of a literary text. Ecotheory by conviction emphasizes on the

ecocentric values embodied in an artifact of literature and culture. Until the emergence environmental criticism, all the earlier theories were androcentric sidelining the crucial role played by the physical environment. It was after the environmental problems; the ecological representations were brought to the front. Ecotheorist replaces androcentric / anthropocentric approach to the ecocentric approach and not the other way around. *Ode to the West Wind* is a sound text in terms of ecocentric prism. The nature has been at its mightiest who is essentially a creator, destroyer and also preserver. All the three major functions of the physical nature have been emphasized. Even there are numerous incidents in the last two decades when natural calamities completely destructed the human life. For example, tsunami, earthquakes, and floods are the powerful natural forces.

Further, it is the nature which is at the centre and other species are in a circular cycle. The wind being the powerful natural force governs the entire ecosystem and thus stands for the inclusion of the whole universe irrespective of boundaries like caste, race, religion, and gender discrimination. Therefore, the claim of ecocritics of the inclusion of all that exists on the only habitable planet, earth is met fully. By expanding the boundaries of criticism, of a literary and cultural artifact the hitherto neglected facets are also justified.

As stated earlier, the nature in this ode has been represented as the single most powerful object in the universe, rather than mankind. The subsequent stanza substantiates that the wind even affects the vast sea by creating scare and commotion in the sky, consequently, causing thunderbolt, lightning, and storms. The third stanza is the highest level of the natural representation which is attributed to the essential human qualities of dreaming, lulling, and quivering the entire world with its upheavels. This intensifies the natural representation.

42	Dr. Daivshala Chatrabhuj Rasal	उद्योगातील नविन धोरण - स्टार्टअप धोरण	ONLINE PUBLICATION	2018	2348-7143
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प्रस्तावना : -

आज जगातील कोणतीही अर्थव्यवस्था विकसीत आहे की नाही हे ठरवण्यासाठी जे निकष लावले जातात, त्यामध्ये उद्योग क्षेत्राला अतिशय महत्वाचे स्थान आहे. किंबहुना अर्थव्यवस्थेचा विकास हा प्रामुख्याने औद्योगिक क्षेत्रावरच अवलंबून आहे. असे म्हटले तरी वाचणे ठरणार नाही. परंतु उद्योग उभा करणे, तो व्यवस्थित चालवणे हे सुध्दा आज तंत्रज्ञानाच्या युगामध्ये सहजसोपे राहिले नाही. कारण उद्योगासाठी पैसा, वेळ, श्रम हे तर महत्वाचे आहेत परंतु सर्वात महत्वाची आहे ती जोखिम मात्र ही जोखिम जो स्विकारतो त्याला उद्योगामध्ये यश मिळते.

आजच्या नविन तंत्रज्ञानाच्या युगात प्रत्येक उद्योगाने आपले औद्योगिक प्रमेय हे डोळसपणे आखायला हवीत. कारण दोन दशकांपुर्वीचे उद्योग, आजचे उद्योग व पुढच्या काळात येणारे उद्योग यांचे स्वरूप बदलत आहेत व या बदलत्या युगात आपला उद्योग भरभराटीस न्यावयाचा असेल तर काळानुसार त्यात बदल करणे अपेक्षित आहे. एकदा यशोशिखरावर गेलेला उद्योग हा कायम तिथेच राहिल हे सांगता येत नाही. त्यांनी वेळोवेळी आपली धोरणे काळानुसार बदलली पाहिजेत. आज उद्योजकाला ग्राहकाची मागणी व बाजारातील प्रतिस्पर्धी या दोन्हीकडे लक्ष ठेवावे लागते व बदलण्याच्या परिस्थितीत आपल्या उद्योगातही बदल करावे लागतात.

भारतातील औद्योगिक विकास : -

भारतात औद्योगिक विकासाची प्रक्रिया सुरु झाली ती खऱ्या अर्थाने १९९१ च्या औद्योगिक धोरणामुळे. १९९१ च्या औद्योगिक धोरणातील अनेक नवनविन तरतुदी या औद्योगिक विकासास कारणीभूत ठरल्या. मग त्या खाजगीकरणाशी संबंधित असोत किंवा उदारीकरणाशी संबंधित असोत परंतु त्या नविन धोरणाने भारतीय अर्थव्यवस्थेला अविकसीत देशाच्या रांगेतून उठवून विकसनशील देशाच्या रांगेत आणून बसवले. याच आधारावर आज भारत हा जगातील एक आर्थिक महासत्ता बनू पाहत आहे. व हे स्वप्न पूर्ण करण्यासाठी आज औद्योगिक क्षेत्रामध्ये नवनविन धोरणे आणली जात आहेत. उदा. मेकइन इंडिया, स्टार्टअप इंडिया, स्टॅंड अप इंडिया, स्मार्ट सिटी योजना, मेट्रोप्रेन या सारख्या नविन योजना सरकारमार्फत जाहिर करण्यात आल्या. या योजनापैकी एका स्टार्टअप या योजनेचा अभ्यास पुढील प्रमाणे करता येईल.

स्टार्टअप इंडिया योजना : -

भारत हा देश तरूणांचा देश म्हणून ओळखला जातो. या तरूणांना विकासाच्या प्रक्रियेमध्ये सामावून होणे गरजेचे आहे. या तरूणामधील उदयमशीलता सृजनशीलता, कर्तृत्व यांचा उपयोग देशाच्या सामाजिक व आर्थिक विकासासाठी करून घेणे गरजेचे आहे. नविन सरकारने सर्वांगीण विकासाचे उद्दिष्टे साध्य करण्यासाठी औद्योगिक विकासावर भर दिला व त्यासाठी मेक इन इंडिया या सारख्या महत्वपूर्ण योजना हाती घेतल्या.

43	Dr. Daivshala Chatrabhuj Rasal	महिलांच्या आर्थिक समस्या व उपाय योजना	Chronicle of Humanities and Cultural Studies	2018	2454-5503
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महिलांच्या आर्थिक समस्या व उपाययोजना

प्रा. डॉ. रसाळ डी.सी.

कर्मवीर मामासाहेब महाविद्यालय, वाशी.

जि. उस्मानाबाद.

। :-

भारतीय समाज हा प्रामुख्याने पुरुषप्रधान आहे. याला अपवाद म्हणता येईल अशा काही भटक्या विमुक्त जमातीमध्ये मात्र स्त्री प्रमाण आहे. परंतु सर्वसाधारणपणे भारतीय समाजात स्त्रीला दुय्यम स्थान आहे. स्वातंत्र्योत्तर काळात १९४७ ते १९७० च्या दशकापर्यंत महिलांच्या हक्क व अधिकार यांना प्राधान्य देण्यात आले. त्यानंतर मात्र असमान वेतन, स्त्रियांचे अकुशल कामगारात वर्गीकरण, ला श्रम. सत्तेच्या संरचनेतील पुरुषी वर्चस्व या घटकांना प्राधान्य देण्यात आले व २९ व्या शतकात तर ही चळवळ स्त्रियांचे जीवन व स्त्री सक्षमीकरण या घटकांकडे वळली.

देशात एकुण लोकसंख्येच्या जवळपास ५०% लोकसंख्या ही महिलांची आहे. मात्र पुरुषांच्या तुलनेत महिला या कायमस्वरूपीच पर्यायांच्या विळख्यात असलेल्या आपणांस पाहावयास मिळतात. आर्थिक समस्यांनी जखडलेल्या महिलांची संख्या ही ग्रामीण भागात ब्यास मिळते. त्या तुलनेत शहरी भागातील अनेक महिला विविध ठिकाणी नोकरी करून कुटूंबाला आर्थिक हातभार लावण्याचे काम शहरी भागापेक्षा ग्रामीण भागातील स्त्रियांचे आयुष्य वेगळे असते. ग्रामीण भागातील महिलांना शहरी भागातील स्त्रियांपेक्षा अधिक ऱ्याचौ कामे, घरकाम, स्वयंपाक ही जास्तीचे कामे करावे लागतात. त्याचबरोबर उन्हाळ्यातील तीव्र पाणी टंचाईमध्ये मैलां दूर वरून ने हे त्यांचे सर्वांत कष्टाचे काम असते. घरची शेती असेल तर शेतीवरील सर्व कष्टाची कामे, पशुपालनाचे काम, कुक्कुटपालन ही प्रामुख्याने महिलांनाच करावी लागतात. पण या कामाचा आर्थिक मोबदलाही या स्त्रियांना मिळत नाही. व शेतीवरच मालकी हक्कही असतो. हे एवढ्यावरच थांबत नाही तर शेतीवर सारख्याच कामासाठी पुरुषांच्या व महिलांच्या वेतनामध्ये तफावत असते व हा पूर्णपणे पुरुषांच्या हाती जातो. स्वतःचे वेतन देखील त्या स्वतःच्या मनाप्रमाणे खर्च करू शकत नाहीत ही खरी ग्रामीण महिलांची आहे.

१८० च्या पुढील काळात मात्र स्त्रिला आर्थिक प्रश्नावर जागरूक करून त्या विरुद्ध बंड पुकारायचे प्रयत्न झाले. त्यासाठी महिलांना शासकीय व व्यवस्थापन क्षेत्रात पुरुषांच्या बरोबरीन संधी मिळायला पाहिजे. तरच त्याचा आर्थिक दर्जा सुधारेल.

त्येक स्तरातील महिलांच्या समस्या वेगवेगळ्या आहेत. या समस्यांची वर्गवारी पुढीलप्रमाणे करता येईल.

नैदानिक समस्या :- २. सामाजिक समस्या :- ३. शिक्षणाच्या समस्या :-

च्या समस्या :- ५. आर्थिक समस्या :-

समस्या :-

दृष्ट्यामध्येही महिलांना दुय्यम स्थान असते. कुटूंबातील महत्वाच्या निर्णयामध्ये तिचे मत विचारले जात नाही. त्याचप्रमाणे आर्थिक त्या अधिकार तिला नाही. कुटूंबामध्ये महत्वाची जबाबदारी तिच्यावर असते परंतु तिला स्वतःचा अधिकार नसतो. मुळात हिलेला मानाचे स्थान नसते.

। समस्या :-

रतीय समाज हा पुरुषप्रधान असल्यामुळे समाजामध्ये महिलांना दुय्यम स्थान आहे. त्यामुळे तिच्यावर अन्याय होताना दिसतो. वेगळ्या वर्गातील, जाती जमातीतील, प्रदेशामधील स्त्री समस्यांचे स्वरूप वेगवेगळे आहे. शहरी स्त्रियांच्या समस्या वेगळ्या आहेत. स्त्रियांच्या समस्या वेगळ्या आहेत. परंतु अलिकडे महिला चळवळीच्या माध्यमातून महिला पुरुषाबरोबर काम करत आहेत परंतु अत्यंत कमी आहे.

समस्या :-

रतात शिक्षणाच्या बाबतीत महिला आज ही पुरुषांच्या तुलनेत मागे आहेत. मुला मुलींमधील भेदभावामुळे मुलींना शिक्षणापासून वागते.

त्या फुले म्हणतात की, " घरातील एक माता शिकली तर सर्व कुटूंब राहणे होईल. सगळ्या स्त्रिया शिकल्यातर सर्व देश जागा । म्हणूनच त्यांनी स्त्री शिक्षणाची चळवळ सुरू केली व आज त्याला मोठ्या प्रमाणात यश आलेले दिसते. देशातील स्त्रिया आज त्या आहेत.

या समस्या :-

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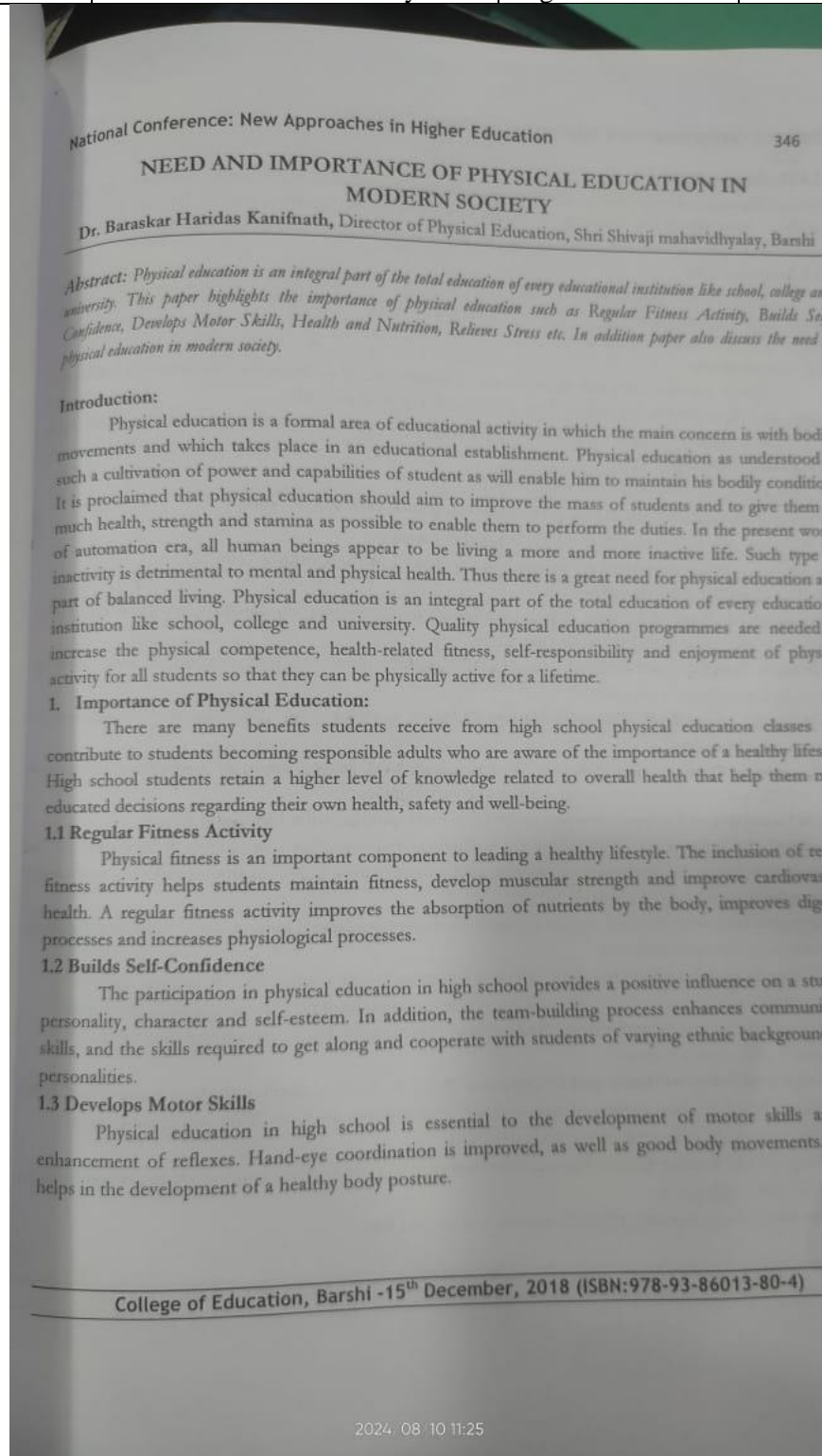
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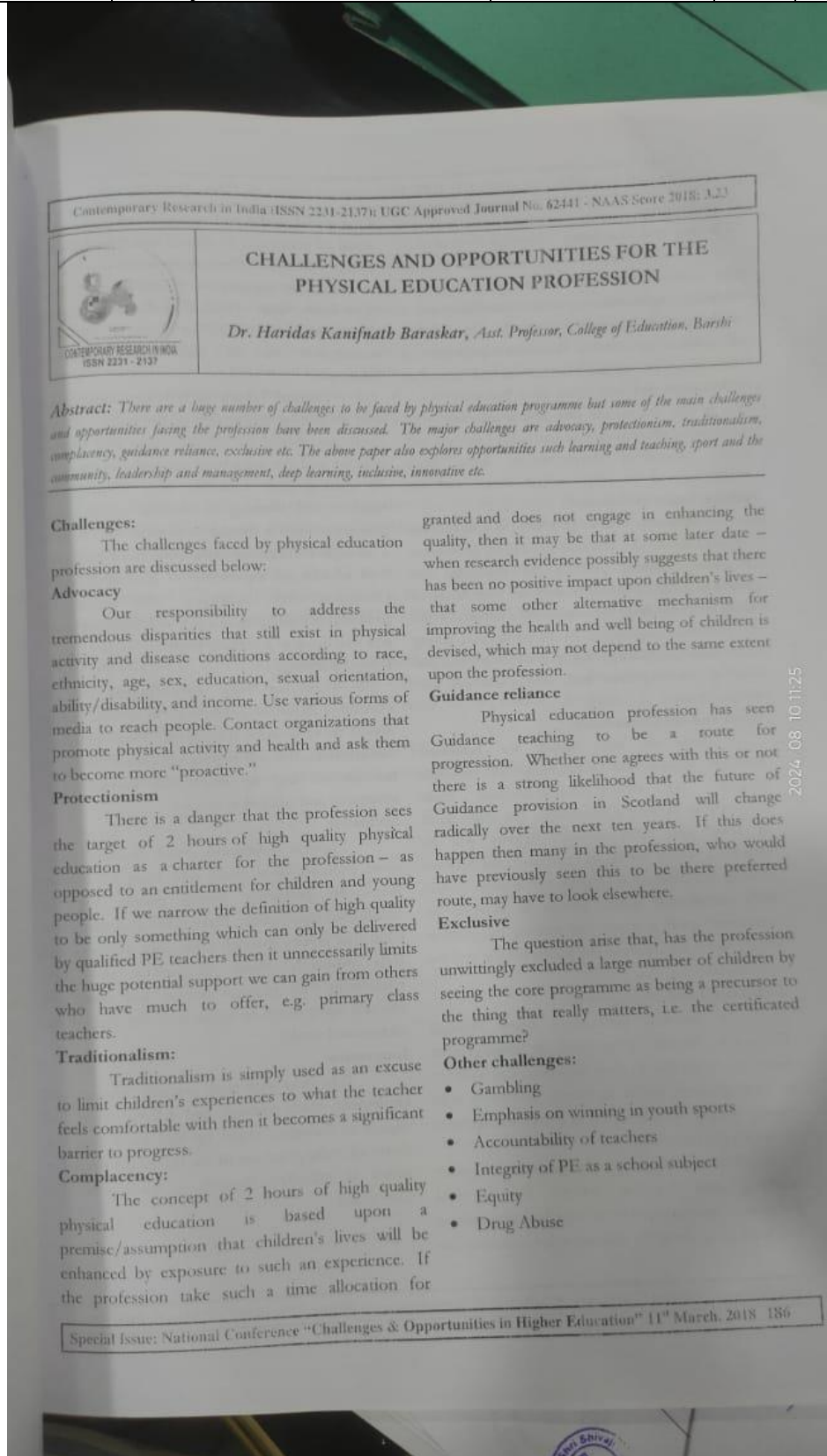
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44	Dr. Haridas Kanifnath Baraskar	Need and importance of physical education in modern society	National Conference: New Approaches in Higher Education	2018	978-93-86013-80-4
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45	Dr. Haridas Kanifnath Baraskar	Challenges and opportunities for the Physical Education Profession	Contemporary Research in India	2018	2231-2137
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46	Prof U R Ghodake	WSN/Wi-Fi Microchip-Based Agriculture Parameter Monitoring using IoT	2018	1965-9856
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WSN/Wi-Fi Microchip-Based Agriculture Parameter Monitoring using IoT

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V.D. Bachuwar; U.R. Ghodake; Ahmed Lakhssassi; S.S. Suryavanshi All Authors

7 Department of Electronics, Shri Shivaji Mahavidyalaya, M.S., India

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Abstract

Abstract:

Automation in the agriculture system is essential these days. That is why this subject required special attentiveness. On comprehensive, this problem is solved with the help of satellite-based instruments. In the present case the monitoring system collects the agricultural parameters on a more regional level. This paper attempts to gather the data from various sensors using Wi-Fi technology with IoT, which comprises of Arduino Nano and esp8266-01. The realisation of data gathered by sensors (moisture in the soil, temperature of the soil, light intensity and humidity, status motor pump) based on open source hardware Arduino Nano. Some sensors (TSL2561, DS18B20) will directly provide the data (light intensity, temperature) to the Arduino Nano using I2C and one wire protocol respectively, while other sensors provides the raw data through Arduino Nano's 10-bit analogue to digital converter(ADC). Sensor data processed and communicated to esp8266-01(which act as a Wi-Fi node) incorporating request-send-acknowledgement method. Further esp8266-01 uploads the sensor information on blynk android IoT application and displayed on Graphical User Interface (GUI). The complete system is cost-effective and having low power consumption. IoT is used for update and alert to the farmers through an android application. The notification of irrigation events in the farm site is continuously updated to the farmer. The trials show that the present system works fine, and it is helpful for practical applications to the personalised low-cost agricultural parameter monitoring system.

Document Sections

- I. Introduction
- II. Related Works
- III. Proposed System
- IV. Sensor Interfacing and Calibration
- V. Communication Between Arduino Nano and ESP8266-01 Wi-Fi Chipset

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Authors

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Keywords

I. Introduction

47	Prof U R Ghodake	Phase sensitive detector: Fabrication, processing and application	2018	2319-3158
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Phase Sensitive Detector: Fabrication, Processing, and Applications

Conference paper
pp 457-461 | C


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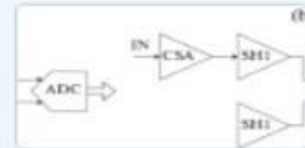
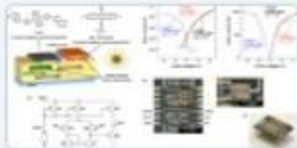
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Abstract

Phase Sensitive Detector (PSD) were designed and fabricated on a single printed circuit board. The sinusoidal test signal is amplified to assume reasonable amplitude and then applied to the switching system. Then output measurements of Phase Sensitive Detector are measured with a digital multimeter. Also, output waveforms were observed on a Cathode Ray Oscilloscope. The detector output concludes that the meter reading is a function of the phase angle ϕ of the test voltage with respect to the reference voltage.

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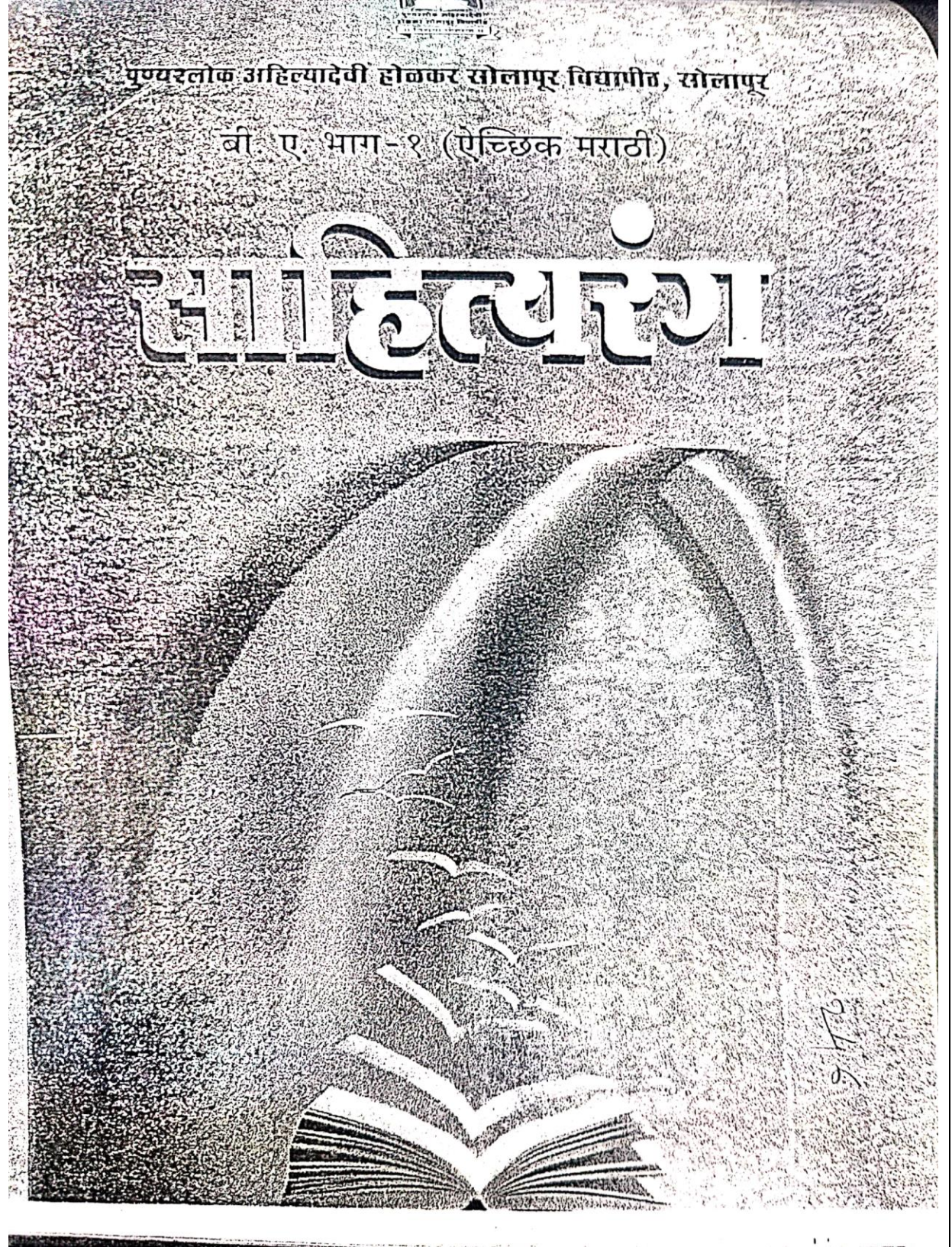
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पुण्यरत्न अहिल्यादेवी होळकर सोलापूर विद्यापीठ, सोलापूर

बी. ए. भाग-१ (ऐच्छिक मराठी)

साहित्यरंग



मराठी भाषा आणि साहित्याचा परिप्रक्ष्य विविधांगी व समृद्ध आहे. त्यामध्ये वेगवेगळे साहित्यप्रकार, प्रवाह आणि प्रवृत्तींचा समावेश होतो. चौ. ए. भाग-१ मधील विद्यार्थ्यांना जगण्याचे व साहित्याचे माध्यम असलेल्या मराठी भाषेचे सखोल ज्ञान व्हावे ही भाषा समर्थपणे वापरण्याची क्षमता निर्माण व्हावी, साहित्यातील प्रकारांचे त्यांचे आकलन व्हावे, आस्वाद आणि विश्लेषण करता यावे, साहित्यातून प्रकटनाच्या विषयांच्या अनुषंगाने जीवनाकडे पाहण्याचा दृष्टिकोन निर्माण व्हावा, त्यातून त्यांचे जीवन अधिक समृद्ध व संपन्न व्हावे या उद्देशाने विद्यापीठाच्या मराठी अभ्यास मंडळाने या पाठ्यपुस्तकाचे संपादन केलेले आहे.

साहित्याच्या पाठ्यपुस्तकांमध्ये कथा आणि कविता या साहित्यप्रकारांची निवड केली आहे. त्यामध्ये निवडक कथा-कविता समाविष्ट केल्या आहेत. त्यांच्या अभ्यासातून विद्यार्थ्यांना जीवनाचे नवे भान येईल, जगण्याची प्रेरणा मिळेल आणि साहित्याच्या अभ्यासाचा आनंद लाभेल. विशेषतः या पाठ्यपुस्तकांमध्ये कोशल्याधिष्ठित, यदकही समाविष्ट केलेले आहेत. ज्यामधून विद्यार्थ्यांमध्ये व्यावसायिक कोशल्या विकसित होईल. हे पाठ्यपुस्तक विद्यार्थ्यांना उदबोधक ठरेल असा विश्वास वाटतो.

थिंक टॅंक

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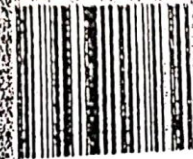
Dr. Parase

शिक्षण हा सामाजिक, आर्थिक, राजकीय घातीचा प्रभाव
आहे. त्यातून सभ्यता आणि संस्कृतीचा पाया घातला जातो.
यामध्ये अभ्यासक्रम व अध्यापकांची भूमिका महत्त्वाची ठरते. हा
विचार केंद्रवर्ती ठेवून पदवी प्रथम वर्गातील विद्यार्थ्यांचा व्यापक
त्यांची आकलन क्षमता, भाषा आणि साहित्य या विषयांची
त्यांची समज, मराठी साहित्यातील कालखंड, विविध वाङ्मयीन
प्रवृत्ती, प्रवाह, कवी, लेखक, वाङ्मय प्रकार, मराठी भाषेचा
विविध पातळ्यांवरील वापर आदी अनेक गोष्टी विचारात घेऊन
हा अभ्यासक्रम तयार केला आहे.

विद्यार्थ्यांमध्ये मराठी भाषा समर्थणे वापरण्याची क्षमता
निर्माण व्हावी. साहित्याच्या विविध प्रकारांचे व प्रवाहांचे
आकलन, आस्वाद आणि विश्लेषण करता यावे. मराठी भाषेचे
वैभव त्यांच्या दृष्टिपथास यावे, साहित्यात मांडलेल्या विषयाच्या
अनुषंगाने जीवनातील प्रश्न त्यांना समजावेत, सामाजिक दृष्टी
विकसित होण्याची प्रेरणा मिळावी या उद्देशाने प्रडळाने या
पुस्तकाचे संपादन केले आहे. भाषा, साहित्य, समाज, संस्कृती
आणि आजचे सामाजिक वास्तव यांचा अनुबध्द लक्षात घेऊन
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विभाग कल्पून किमान कौशल्यावर आधारित घटक निवडले
आहेत. ज्यायोगे विद्यार्थ्यांच्या व्यक्तिमत्त्व विकासाला मदत
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होऊन रोजगारांच्या संधी उपलब्ध होतील. 'साहित्यदर्पण' हे पुस्तक
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विश्वास आहे.

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Yoga for Harmony and Peace of Students

Mr. Ramhari Nagtilak
Assit. Prof., Dept. of Physical Education,
Shri Shivaji Mahavidyalaya Barshi,
Dist- Solapur Maharashtra

Abstract

Yoga for Harmony and Peace is the slogan of first ever International Yoga Day which has been celebrated in huge scale across India and other parts of the world. Therefore yoga should not be taken just as to stretch a body; actually it should be taken as a habit to live healthy and cheerful stress free lifestyle. Yoga is a powerful natural state that can inspire you in many ways and also yoga-inspired exercises to promote lifetime wellness. Yoga is above all the regular physical exercises as it paves the way for disciplinary lifestyle amidst the students. It serves both the physical and the psychological aspects of a person. Yoga could help students with their all-round growth. Emotional, physical, intellectual and social are the various dimensions of personality development. The various breathing techniques in yoga can help students control their thoughts and emotions, attain harmony and manage their social life well. Yoga is more than just breathing techniques and correct postures; it is a way of leading a healthy life. Make meditation a daily routine to overcome stress. Yoga is a continuous process. So keep practicing! The deeper you go into your yoga practice, the more profound will be its benefits.

Introduction

Yoga for Harmony and Peace is the slogan of first ever International Yoga Day which

has been celebrated in huge scale across India and other parts of the world. Now June 21 will be marked as International Yoga Day which was actually driven by Indian Prime Minister Narendra Modi, being himself a regular yoga practitioner. Practicing yoga and meditation is believed to bring positive changes in our lives by making our body fit and mind refreshed full of positive energy.

KeyWords:

Yoga- According to a Hindu spiritual and ascetic discipline, a part of which, including breath control, simple meditation, and the adoption of specific bodily postures, is widely practiced for health and relaxation.

Harmony- The combination of simultaneously sounded musical notes to produce a pleasing effect.

Peace- Freedom from disturbance; tranquility.

Technique of Practice

Yoga postures –the primary series of Ashtanga yoga- variations for all abilities will be offered
Techniques – cleansing, kinetics, Vinyasa system

Energetic – Energy locks (bhandhas), breath awareness, Sanskrit & chanting

Philosophy – yoga philosophy, yoga sutras, mindfulness and meditation

Benefits of Yoga

The first is that it improves your health.

A violence-free society

Disease-free body

Confusion-free mind

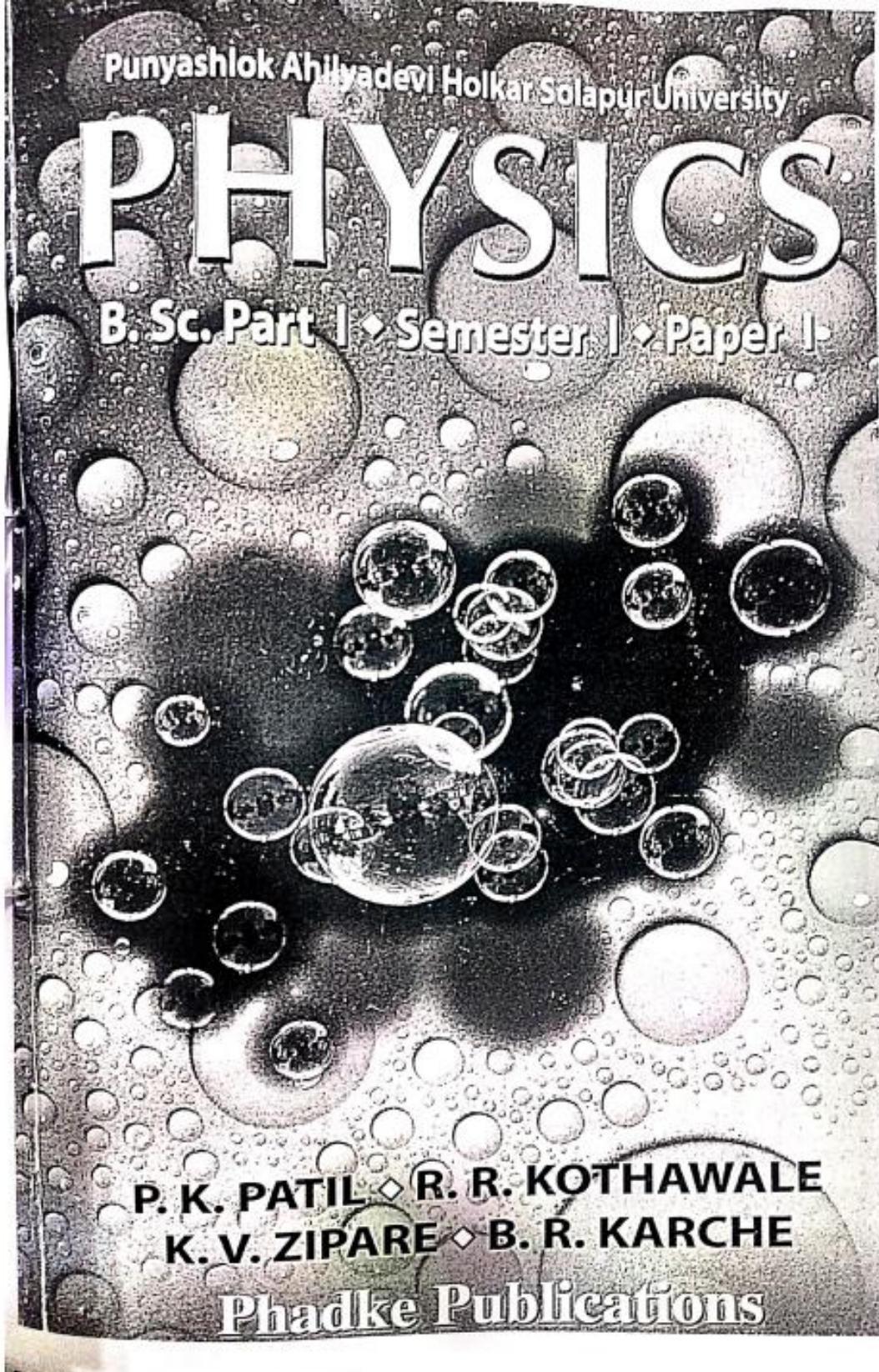
Inhibition-free intellect

Stress-free and Tension-free life

Conclusion

The term PEACE has a very profound and deeper meaning. It presupposes the feeling of contentment, self-satisfaction, a feeling of wellbeing, harmony, respect for each other, oneness and above all, a feeling of *vasudhaiva kutumbakam* i.e. the whole world is one family, and as against this, a feeling of discontentment, dissatisfaction, unrest, disharmony, no respect

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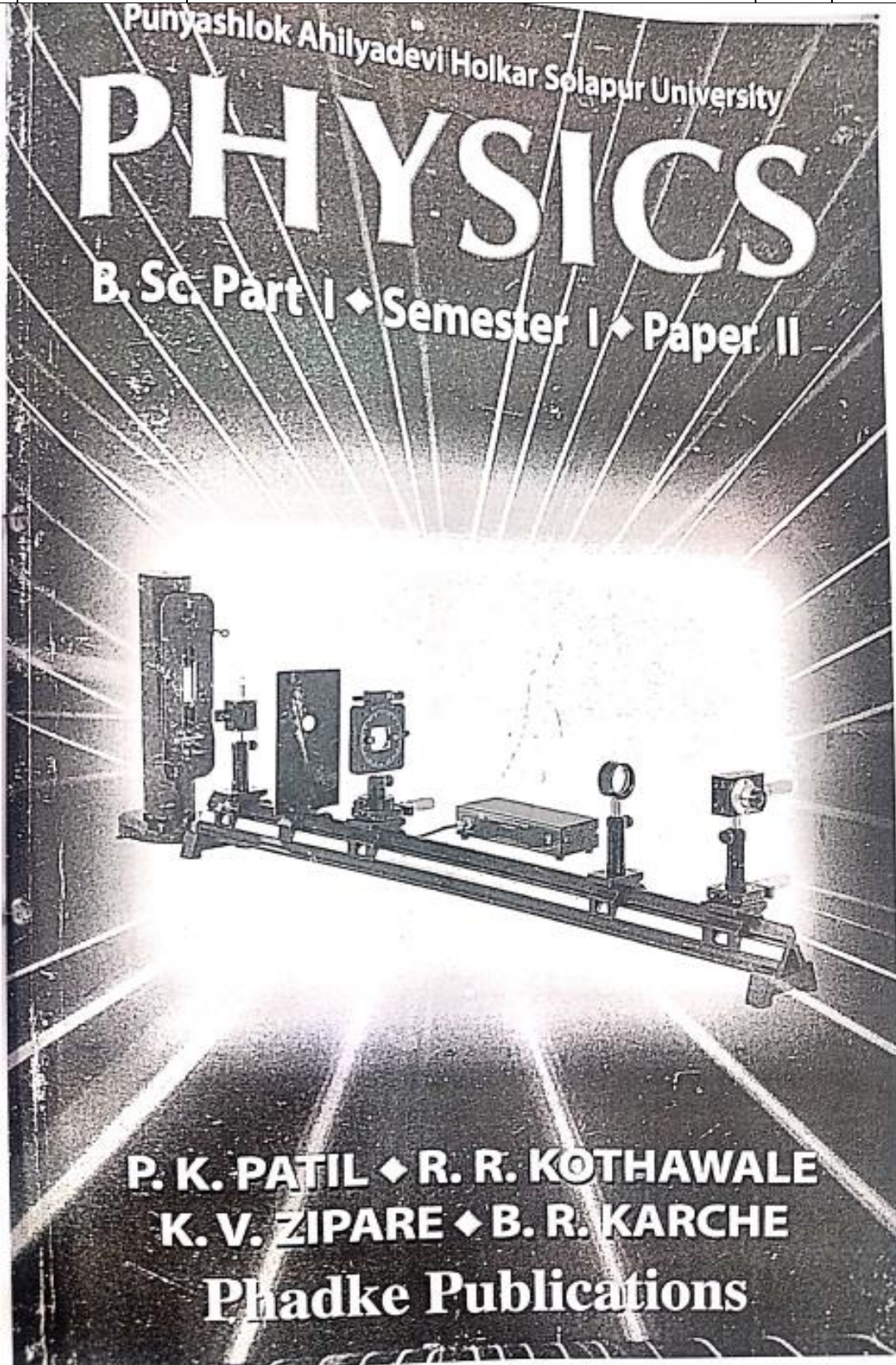
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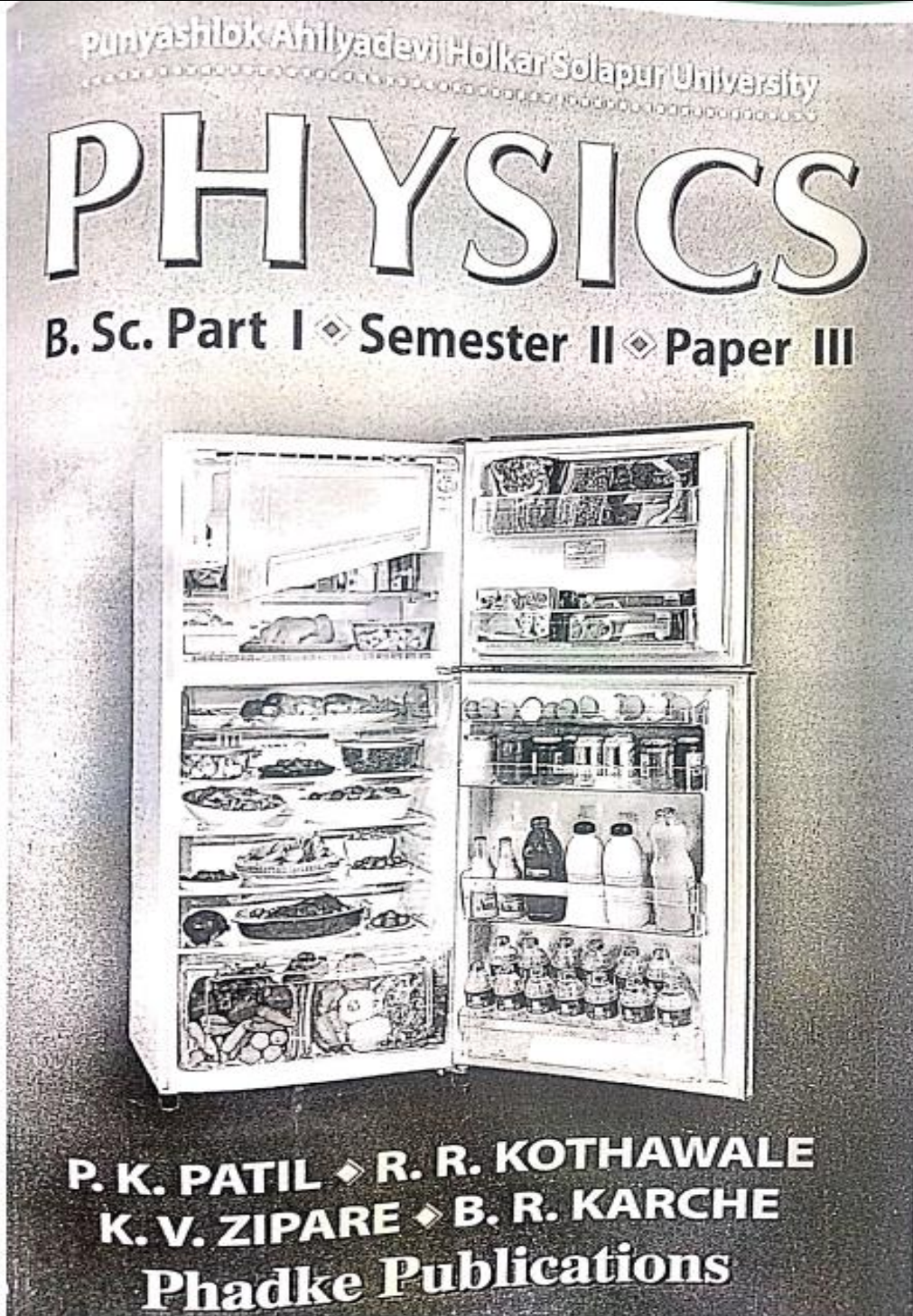
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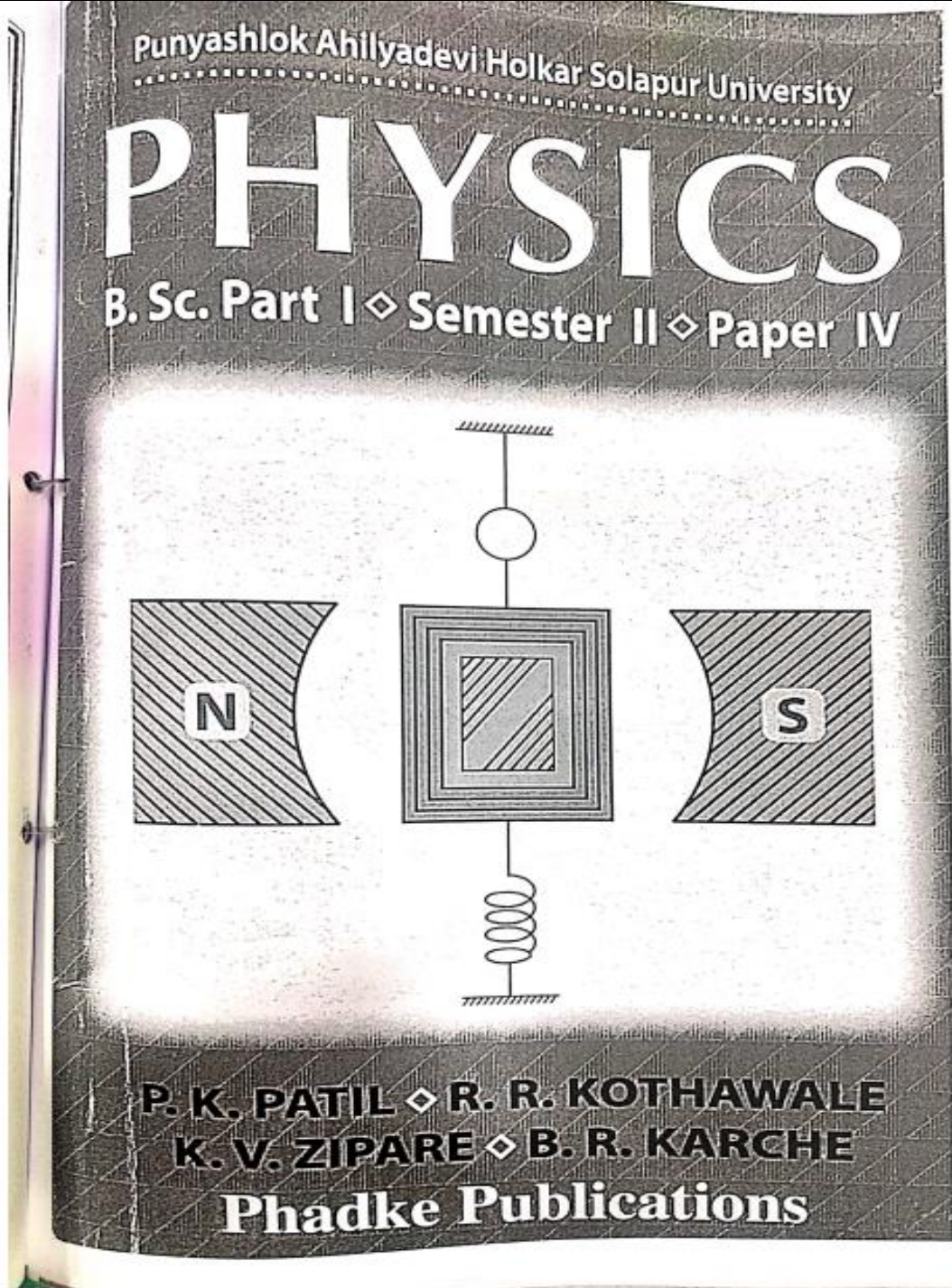
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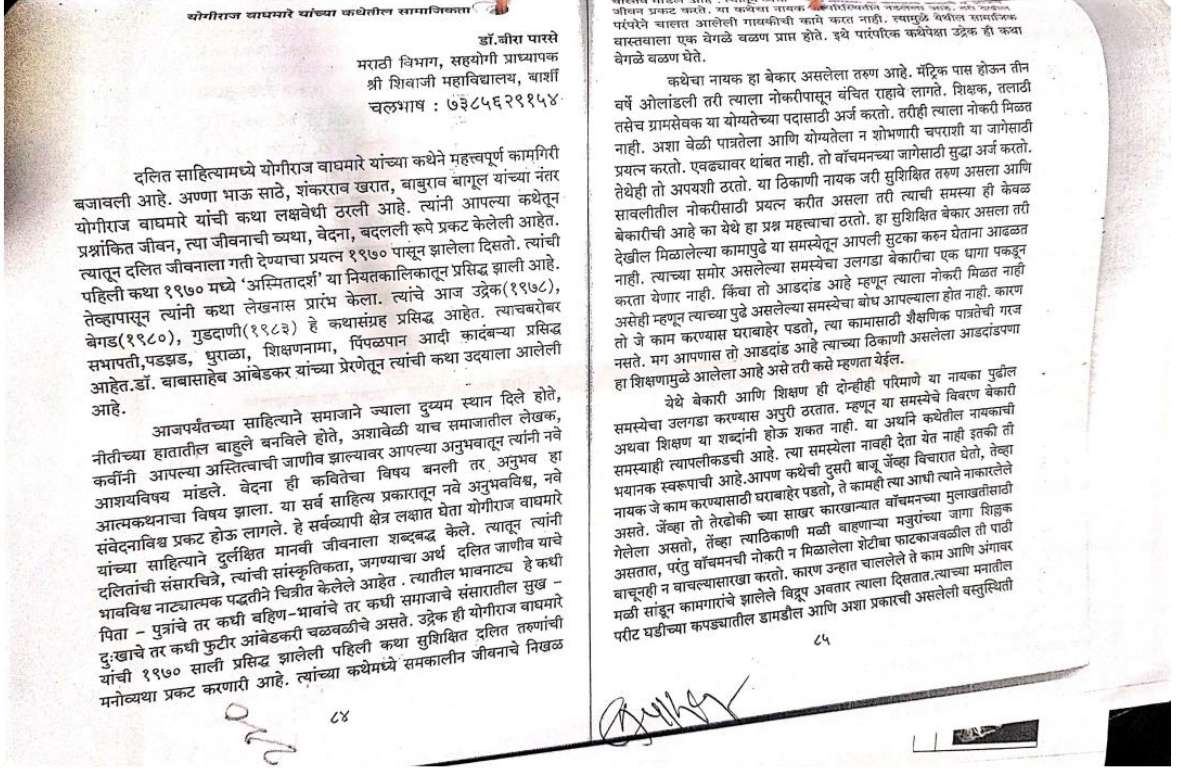
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An Efficient Protocol for the Synthesis of Pyrido[2,3-*d*]pyrimidines in Glycerol–Water Medium: Assessment by Green Chemistry Metrics

Dattatraya K. Jamale, Vashishtha M. Gurame, Navanath J. Valekar, Shankar P. Hangirgekar, Govind B. Kolekar, and Prashant V. Anbhule*

A clean and ecofriendly approach for the catalyst-free synthesis of pyrido[2,3-*d*]pyrimidine derivatives by one-pot three-component condensation of aromatic aldehyde, malononitrile and 6-aminouracil or 6-amino-1,3-dimethyluracil using glycerol–water (3:1) as green reaction media has been developed. Catalyst-free synthesis with high to excellent yields and use of glycerol–water system as an environmentally benign reaction condition are the prominent features of this strategy. Moreover, excellent outcomes from the calculations of green chemistry metrics reveal the greenness of the protocol.

is limited due to less solubility of many organic compounds in water. At the present time, the awareness to use biomass-derived solvents rather than traditional organic solvents has improved.^[1] With regard to the green chemistry principles, the biomass-derived glycerol^[4] is a "green solvent"^[11] and also considered as "organic water"^[12] owing to its promising properties like nontoxicity, biodegradability, nonvolatility, noncorrosiveness, inflammability, and inexpensiveness.^[6] It is a polar protic solvent, which has capability to form strong hydrogen bonds and many organic

compounds are easily dissolved in glycerol that are not or less soluble in water.^[6] As a consequence of these encouraging properties, in recent years many synthetic strategies have been effectively carried out by using glycerol as a promising reaction medium.^[7,8]

The expansion of clean and efficient synthetic strategies for the design of pharmacologically important nitrogen containing heterocycles and their fused derivatives is a significant aspect of medicinal and organic chemistry.^[9] From last two decades, a great deal of consideration has been intended for synthesis of pyrido[2,3-*d*]pyrimidine derivatives due to their attractive biological and pharmacological properties such as antibacterial,^[10] antimicrobial,^[11] analgesic,^[12] anti-inflammatory,^[13] antitumor,^[14] cardiotoxic,^[15] antifungal,^[16] antihypertensive,^[17] and calcium channel antagonists.^[18] Consequently, a number of synthetic approaches have been reported for the preparation of pyrido[2,3-*d*]pyrimidine derivatives.^[19–22] Moreover, the literature survey reveals that pyrido[2,3-*d*]pyrimidines are usually synthesized by condensation of aromatic aldehyde, malononitrile, and 6-aminouracil or its derivatives at different reaction conditions such as 1) tetra-*n*-butyl ammonium bromide (TBAB)/ultrasonic irradiation/water/70 °C/50 min;^[23] 2) triethylbenzylammonium chloride (TEBAC)/water/90 °C/6–10 h;^[24] 3) nanocrystalline MgO/water/80 °C/12–35 min;^[25] 4) KF·Al₂O₃/ethanol/90 °C/5–8 h;^[26] 5) diammonium hydrogen phosphate (DAHPh)/water-ethanol/reflux/2 h;^[27] 6) DMF/reflux/20–30 h;^[28] 7) NaBr/ethanol or acetonitrile/electrolysis/25–30 min;^[29] 8) SBA-Pr-SO₃H/solvent free/5–45 min;^[30] 9) Al-HMS-20/ethanol/RT/12 h^[31]; and 10) thiamine hydrochloride/water/90 °C/2–2.5 h.^[32]

By considering the pharmacological significance of pyrido[2,3-*d*]pyrimidines and within the framework of green chemistry

1. Introduction

Over the past few years, awareness of environmentally benign chemistry has become a significant vision to encourage sustainable development in academia and industrial research.^[1] Green Chemistry is defined as "the invention, design, and application of chemical products and processes to reduce or to eliminate the use and generation of hazardous substances."^[1] In addition, exclusion of catalysts and replacement of harmful solvents by comparatively benign solvents for chemical reactions is an admirable approach of green chemistry principles.^[1] Catalysts used in synthetic protocols may be harmful to environment, therefore, the development of catalyst-free chemical procedures is an important defy in organic synthesis. Moreover, by considering the impact of waste from chemical laboratories and industries on the environment, search for green solvents has become a focus of intensive research in organic transformations, and consequently solvent selection is a crucial feature in ecofriendly chemical processes.^[2] In fact, water is the first preference, but its utility

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59	Dr. Vijayashri Vitthal Gawali	R.R Borade Yancha Kathetil Mulancha Natesambhatil Vishamteche Chitran	Akshar Vangamay	2019	2229-4929
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साहित्यातील लिंग, जात व धर्म विषयक समता व विषमता ■ ISSN - 2229-4929

रा. रं. बोराडे यांच्या कथेमधील 'मुलांच्या' नातेसंबंधातील विषमतेचे चित्रण

प्रा. विजयश्री गवळी
श्री शिवाजी महाविद्यालय
बारशी जि. सोलापूर

मराठी ग्रामीण कथेमध्ये ग्रामजीवनावरोबरच कौटुंबिक सुख-दुःखाच्या कथा रंगविलेल्या दिसतात. दुष्काळ, पाणीचा परिणाम लहान मुलांच्या भावजीवनावर झालेला पहावयास मिळतो. मराठीमध्ये आनंद यादव, रा. रं. बोराडे यांच्या माडनुळकर यांनी लहान मुलांच्या असाह्य जीवनातील भाव-बंधावर कथा लिहील्या आहेत.

ग्रामजीवनात लहान मुलांच्या नातेसंबंधातील असाह्य जीवन, त्यांच्यातील विषमता याचा विचार रा. रं. बोराडे यांच्या कथांमध्ये झालेला आहे. याचा विचार या शोधनिबंधात केलेला आहे.

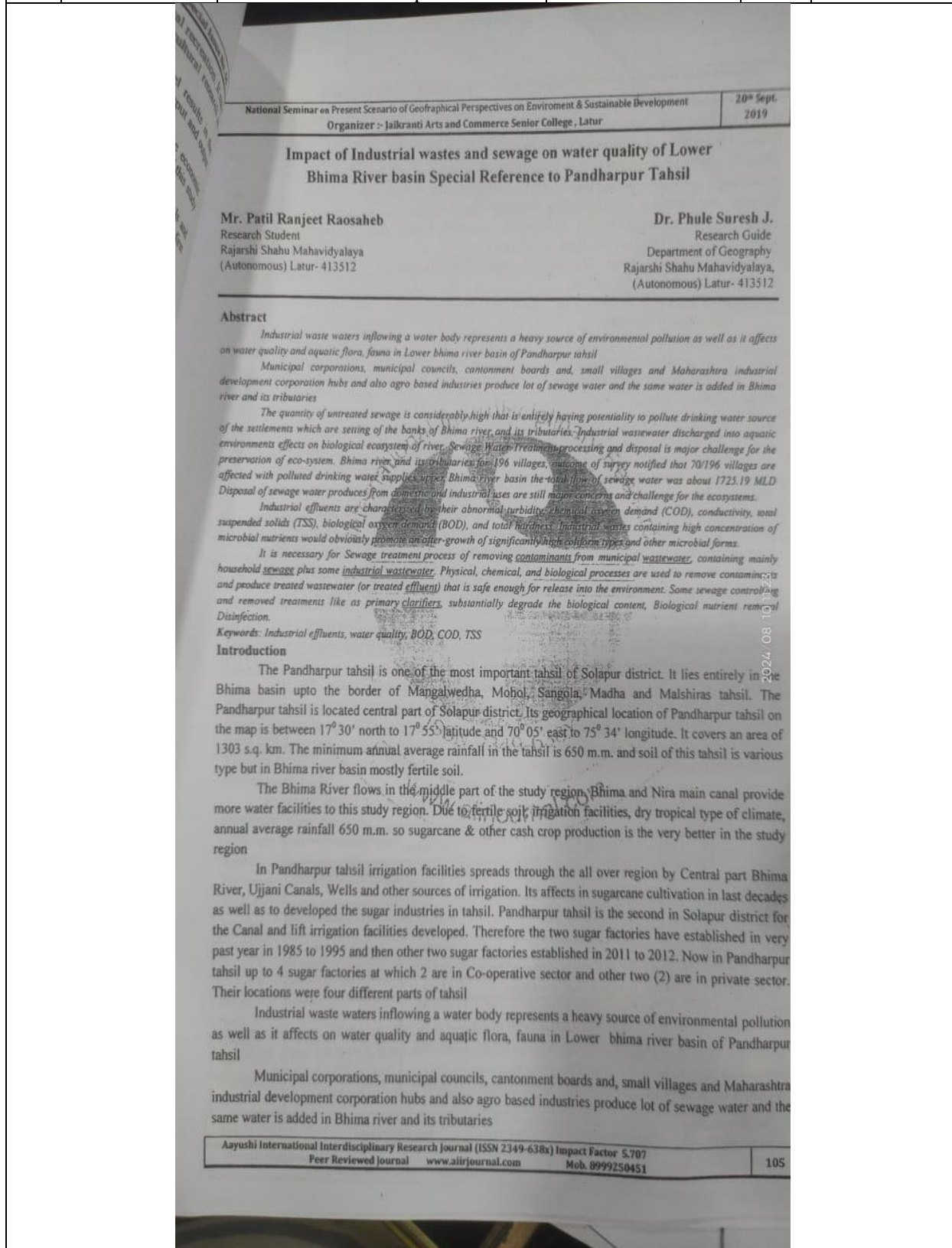
ग्रामीण समाजात एकत्र कुटुंबात बहुतेक ठिकाणी पहावयास मिळते. घरात आजी-आजोबा, काका-काकू, मामा-मामा, आई-वडील, सासू-सासुरे, नणंद-भावजय अशा नात्यांतील अनेक माणसांचा वावर असतो. ही नाते सगळ्यांना सुख-दुःखात एकमेकांना सहकार्य करून रहातात. घरातील कर्त्या पुरषाचा निर्णय सर्वांना मान्य करावा लागतो. यात कौटुंबिक संघर्षही दिसतो. त्यामुळे घरातील लहान मुलांवर त्याचा परिणाम होताना दिसतो. समाजात स्त्रीला मुलगा म्हणून खूप महत्त्व आहे. आईचे मातृत्व आणि पुरूषाचे पुरूषत्व सिद्ध करणारे हे मुल वंशाचा दिवा समजले जाते. मुलगा जन्म पावत देवाला नवस-सायास करताना दिसतात.

बोराडे यांच्या 'आबाळ, मळणी, लागेबांधे, खेळ' या कथामधून मुलांचे कुचंवलपण स्पष्ट होते. तर 'नातीगोती' कथेमध्ये हेल्सॉड, मुरवण या कथांमध्ये मुलांची चित्रणे येतात. घराची परिस्थिती चांगली असते तेव्हा मुलांचे आयुष्य सुखी असते. पण मुलांचे सरळ चाललेले असते. चार चौघासारखे आयुष्य त्यांना जगता येते पण ज्यावेळी घरामध्ये दारिद्र्य असेल, मुलांचे आयुष्य दुःखाचे जीवन वाटते. बापाच्या आजाराने घेरलेले असेल किंवा दुर्दैवाने आईचा मृत्यू घडला असेल, तर अशा वेळी मुलांचे आयुष्य कठिण होते. या कथांमध्ये मुलांचे आयुष्य कठिण होते. ग्रामीण परिसरामध्ये आईच्या नंतर मुलांचा योग्यरितीने सांभाळ करणाऱ्या चुलत्या आहेत. मुलांच्या आयुष्यात बापाच्या आजाराने घेरलेले असते. आईची आठवण ही मुलांना होत नाही अशा ही काही मुलांचे चित्रण बोराडे यांच्या कथांमध्ये आहे. ही मुले भावा-भावाच्या भांडणात सुसंवाद साधण्याचे काम करतात. नरहर कुरूंदकर यांनी या संदर्भात लिहिले आहे की, "मुलाला इतके महत्त्व असल्यामुळेच की काय बोराडे यांच्या कथेत लहान मुलांना एक विशेष महत्त्व आहे. अनेक कथांच्या मधून ही लहान मुले सारखी वावरत असतात. त्यांचा उपद्रवी निष्पापपणा, त्याची खोड किंवा किंबहुना त्यांच्या बालिश आनंदाच्या तन्हा या साऱ्यांच्या चित्रणाचे एक आकर्षण बोराडे यांना आहे." हे खरे आहे की काही कथांचे निवेदन पुर्णतः मुलांनीच केले आहे.

आई वेगळ्या मुलाची कथा 'मळणी' या कथेतून सांगितली आहे. या कथेचे निवेदन मुलगा करतो. त्याची उमेद आहे. बापाने या मुलासाठी दुसरे लग्न न करण्याचे ठरविले आहे. बापाबरोबरच हा मुलगा राहात आहे. आईचे निवेदन सगळ्यांच्या दृष्टीने सहानुभूती व्यक्त करण्याची बाब आहे. प्रत्येकालाच वाटते की, आपल्याला शक्य होईल की मुलगा या मुलाचे करावे. बापाचे माळयाच्या बायनाशी लोचटपणे वागणे, तिला पाणी प्यायला देणे, वाळूक कापून घेणे, मुलगा अजिबात आवडत नाही. तो रडून आपला विरोध व्यक्त करतो.

या कथेत ऐन तारुण्यामध्ये पती निघून गेलेला असल्यामुळे शरीराने आणि मनाने अस्वस्थ झालेल्या गुजाबायलाचे चित्रण झालेले आहे. या कथेत मुलगाच निवेदन करतो. आई रोजगारीने जाते म्हणून गुजाबायच्या घरी दुपारेच जेवण घ्यायचे. मुलगा सुट्टीत शाळेतून उन्हात निवेदक गुजाबायच्या घरी येतो. "बीन पाळलेले कुत्रे दबत दबत एखादयाच्या वाटेवर तस म्या गुजाबायच्या घरात आलो." त्याची भेदरलेली अवस्था या वाक्यातून स्पष्ट होते. खेड्यात मोलाच्या स्त्रिया दिवसभर रानात जातात. त्यांच्या मुलांच्या जेवणाची अशीच परवड होते. निवेदक गंमतीने हातावर हात घेऊन खेळ गुजाबायशी खेळतो. पुढे शिवाशिवा, नाक ओढणे, जीभ ओढणे असे खेळ खेळताना गुजाबाय आनंदित होते. त्याला मारते. निघून जाण्याविषयी दटावते. पळून गेलेल्या नवऱ्याचा राग ती निवेदकावर काढते आणि निवेदकाला खूप दुःख होऊ लागते. मुलगा चुलता पडून राहतो, तशी ती पडून राहिली गपगार" असे तो सांगतो. निवेदकाला खूप दुःख होऊ लागते असते पण कुठे आणि कसे जेवायाचे हाच मोठा प्रश्न असतो. इथले गुजाबायचे हिंस्र होणे ही निवेदकालाची अवस्था स्पष्ट होते.

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कर्मवीर मामासाहेब जगदाळे महाविद्यालय वारी

ना :-

आजच्या या धकाधकीच्या जीवनामध्ये प्रत्येक व्यक्तीला आपले काम कमीत कमी वेळेत म्हणजेच तात्काळ कावे अशी अपेक्षा मात्र आपण आपल्या आवश्यक कामासाठी बँकेत गेलो तर तेथे रांगेत उभे राहण्यासाठी जाणारा वेळ हा खूप मोठा असतो. एका सर्व दैनंदिन कामे बाजुला ठेऊन आपण बँकेत आल्यानंतर बँकेतील कामासाठी जाणारा वेळ आपण डिजिटल बँकिंगचा वापर वाचवू शकतो. यामुळे आवश्यक कामही तात्काळ मार्गी लागते. त्यामुळे आपले दैनंदिन कामकाज सुरळीतपणे सुरू ठेऊ सध्या परिस्थितीमध्ये आपण आपला अमूल्य असा वेळ वाचवण्यासाठी डिजिटल बँकिंगचा वापर करून आगदी काही मिनीटात विविध व्यवहार मार्गी लाऊ शकतो. इन्शुरन्सचा हप्ता भरणे, घराचा हप्ता भरणे, गॅस सिलेंडरचे पैसे भरणे, लाईट बिल भरणे, पैसे काढणे, विविध बँकेकडे कर्ज मागणीचा अर्ज करणे यासह विविध कर्जांचे हप्ते भरणे ही कामे आपण डिजिटल बँकिंगचा करून अवघ्या काही वेळात पूर्ण केली तर आपणाला यामुळे कुठलाही अतिरीक्त पुरवठाही सहन करावा लागत नाही. डिजिटल वापर केल्याने आपणाला आपल्या विविध कामासाठी लागणारी रोख रक्कम जवळ बाळगण्याची आवश्यकता नाही. त्यामुळे रोख रक्कम गहाळ होणे यासारखा मोठा धोका पुढारण्याची वेळ येत नाही. डिजिटल बँकेच्या माध्यमातून आपण जी पेशाची देवणा करून आपली विविध कामे मार्गी लावतो. त्यालाच आपण रोकड विरहित व्यवहार म्हणतो.

रोकड विरहित ही संकल्पना देशातील नागरिकांना खऱ्या अर्थाने माहित झाली ती पंतप्रधान नरेंद्र मोदी यांनी घेतलेल्या नोटा निर्मोघापासून. अचानक नोटा बंदीचा निर्णय घेतल्यानंतर देशातील नागरिकांनी जसजस्त दैनंदिन आवश्यक सर्व व्यवहार हे विरहित करण्याचे आव्हान केंद्र सरकारकडून करण्यात आले होते. या कालावधीत अनेक व्यापारी वर्गांसह सर्व सामान्य नागरिकांनीही रोख रक्कम न काढता आर.टी.जी.एस., एन.ई.एफ.टी., नेट बँकिंग, एटोएम आदी बँकेच्या अंशलेल्या विविध सुविधांचा वापर आपली कामे मार्गी लावलेली आहेत. काळा पैसा बाहेर आणण्यासाठी व भ्रष्टाचार निर्मुलनासाठी रोकड विरहित सर्व व्यवहार हा एक उपाय असल्याचा नोटा बंदीच्या कालावधीत सांगितले जात होते. काळा पैसा बाहेर किती आला ? किती भ्रष्टाचार निर्मुलन हा भाग वेगळा असला तरी नोटाबंदीच्या कालावधीपासून अनेक नागरिक रोकड विरहित व्यवहार करण्याकडे वळलेले आहेत. नोटा रोकड विरहित व्यवहार सुरळीतपणे पार पाडणा-या नागरिकांची संख्या ही शहरी भागात जास्त आहे. त्या तुलनेत ग्रामीण भागात येत मोठ्या संख्येतील नागरिक हे रोकड विरहित व्यवहार करण्यास उत्सुक असल्याचे दिसत नाही. यामागे ग्रामीण भागात या विविध अडचणी हे कारण असून शकते. त्यामुळे रोकड विरहित व्यवहार म्हणजे काय ? याचा उहापोह प्रस्तुत शोध निबंधात न आला आहे.

- प्रस्तुत शोधनिबंधाची उद्दिष्ट्ये पुढीलप्रमाणे आहेत.

रोकडविरहित व्यवहार म्हणजे काय ? हे अभ्यासणे.

रोकडविरहित व्यवहारांच्या फायद्या / तोट्यांचा अभ्यास करणे.

पद्धती :-

प्रस्तुत शोध निबंधासाठी द्वितीय सामग्रीचा वापर केला आहे. यासाठी विविध सासिके, दैनिक वर्तमानपत्रे, इंटरनेटवरील विविध आधार घेतला आहे.

रहित व्यवहार :-

पंतप्रधान नरेंद्र मोदी यांनी देशाला पूर्णपणे रोकडविरहित व्यवहार करायला लावण्याचा ध्यास घेतला आहे. रोकड विरहित म्हणजे काय ? त्याची व्याख्या पुढीलप्रमाणे सांगता येईल, “ तंत्रज्ञानाच्या साहाय्याने च वेगवेगळ्या साधनांच्या माध्यमातून रोख तय्यक्ष न देता होणारी आर्थिक देवणा – घेवणा म्हणजे रोकड विरहित व्यवहार होय.” म्हणजेच रोखीचे व्यवहार न करता वस्तुयें रणे होय. रोकडविरहित व्यवहार जगातील सगळ्याच देशात होतात. तसे भारतातपण ते केले जावेत असे पंतप्रधान नरेंद्र मोदींचे आहे. परंतु भारतात आजही लोकसंख्येच्या तुलनेमध्ये रोकडविरहित व्यवहार करणा-या लोकांचे प्रमाण अतिशय कमी आहे. इवण्यासाठी व पूर्ण देश रोकडविरहित व्यवहारांमध्ये थिलीन झाला पाहिजे. यासाठी सरकार प्रयत्न करत आहे.

देशातील लोकांना रोकडविरहित व्यवहाराचे महत्त्व पटू लागले आहे. यामध्ये ग्रामीण भागापेक्षा शहरी भागातील लोकांचे प्रमा हे. विमुद्रीकरणानंतर लोकांकडून रोख रक्कम अचानक कमी झाली. त्यामुळे ही रोकड खर्च करताना लोक विचार करू लागत नाही भाजीपाल्यासारखी किरकोळ खरेदी करत असताना त्यांना रोकड खर्च करावीच लागते. कारण त्यांच्याकडे पेटोएमचो स आहे. परंतु शहरामध्ये मोठ्या मॉलमध्ये अशा व्यवस्था असल्यामुळे तेथे कॅशलेस व्यवहार होऊ शकतो.

भारतात रोकडविरहित व्यवहार होण्यासाठी बँका हा सर्वात मोठा दुवा आहे. कारण रोकडविरहित व्यवहारात बँका या महत्त्व जावतात. सगळे आर्थिक व्यवहार बँकेमार्फतच करावे लागतात. पण भारतात अजुनही अनेक लोकांची बँकेत खातीच नाही रकारने जनधन योजना जाहीर केली व त्याअंतर्गत सर्व भारतीयाना बँकेत खाते उघडण्यात सांगितले. या योजनेअंतर्गत क

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मराठवाड्यातील शेतकरी आत्महत्या -
कारणे व उपायप्रा.डॉ. दैवशाला चत्रभुज रसाळ
अर्थशास्त्र विभाग,
क.मा.जगदाळे महाविद्यालय, वाशी.

ना :-

गाचा पोशिदा म्हणून ओळख असलेल्या शेतकऱ्यांवर
यामुळे आत्महत्या करण्याची वेळ आलेली आहे. जगाचा
रस्त धान्य दुकानाच्या रांगेत धान्य मिळवण्यासाठी उभा
डरोखरच कुठल्याही राज्यकर्त्यांसाठी अभिमानाची गोष्टभारत आर्थिक महासत्ता बनण्याचे स्वप्न पाहत आहे.
च्या यशास्वी उद्धानाने विज्ञानामध्येही भारत अतिउच्च
हचला आहे. या सगळ्यात भारतीय शेतकरी मात्र
रा गतते गेला आहे व आत्महत्या करू लागला आहे.
रा या प्रश्नांचा विचार होणे गरजेचे आहे.भारत हा कृषीप्रधान अर्थव्यवस्था असणारा देश आहे.
तातील ६०% पेक्षा जास्त लोक शेती क्षेत्रावर अवलंबून
(भारतीय शेती आजही भौसमीपावसावर अवलंबून आहे.
गणकमी, दुष्काळ, अनुत्पादकता यासारख्या समस्यांमुळे
शेतकरी आत्महत्या करताना दिसून येतात. भारत सरकारच्या
इम रेकॉर्ड्स ब्युरोच्या (NCRB) अहवालानुसार १९९५
ला २० वर्षात भारतात ३,२१,४०१ एवढ्या शेतकऱ्यांनी
केल्या आहेत. (NCRB) अहवालानुसार २०१६ या
भारतात ११,३७० शेतकरी व शेतमजुरांनी आत्महत्या
मध्ये सर्वाधिक आत्महत्या या महाराष्ट्रात झाल्या. यानंतर
गुजरात या राज्यांचा नंबर लागतो. भारतात १९९५ ते
तीस वर्षांच्या कालखंडात भारतात ३,२१,४०१ शेतकऱ्यांनी
केल्या. त्यापैकी ६९०४५ एवढ्या आत्महत्या महाराष्ट्रात
हैत. भारतात महाराष्ट्र राज्य प्रगतशील राज्य म्हणून
जाते. त्या बरोबरच आता सर्वाधिक शेतकरी आत्महत्याझालेले राज्य अशी ही ओळख महाराष्ट्राची झालेली आहे. महाराष्ट्रात
शेतीची कमी उत्पादकता, पावसाचे कमी होणारे प्रमाण यामुळे
महाराष्ट्रात शेतकरी आत्महत्यांचे प्रमाण वाढले आहे. महाराष्ट्रात
मराठवाडा व विदर्भ या दोन विभागात शेतकरी आत्महत्यांचे प्रमाण
जास्त आहे. याउलट कोंकणामध्ये शेतकरी आत्महत्यांचे प्रमाण
अतिशय कमी आहे. राज्यातील शेतीची व शेतकऱ्यांची स्थिती अत्यंत
विदारक होत आहे. २०१७-१८ मध्ये निव्वळ पिकांचे झालेले नुकसान
जवळपास १७,३३१ कोटी रुपये इतके होत असे महाराष्ट्र राज्याच्या
आर्थिक पाहणी अहवालात सांगितले आहे. पुढील तक्त्यांमध्ये
महाराष्ट्रातील शेतीचा मागील सहा वर्षांतील विकासदर दर्शवला आहे.

तक्ता १.१

महाराष्ट्रातील शेती व शेती संलग्न क्षेत्र विकासदर - २०१२ ते २०१८

अ.क्र.	वर्ष	विकासदर
१	२०१२-१३	- ०.४%
२	२०१३-१४	- १२.३%
३	२०१४-१५	- ०.७%
४	२०१५-१६	- २%
५	२०१६-१७	- २२.५%
६	२०१७-१८	- ८.३%

संदर्भ Economic Survey of Maharashtra -

२०१७-१८

वरील तक्त्यामध्ये दिसून येते की, महाराष्ट्रातील शेती
क्षेत्र व शेती संलग्न क्षेत्र हे मागील सहा वर्षांमध्ये चार वर्ष सतत
तोट्यात चालत आहे. फक्त २०१३-१४ व २०१६-१७ या दोन वर्षांचे
शेतीक्षेत्र नफ्यात आले आहे. त्याचे कारण म्हणजे या दोन वर्षांत
पाऊस प्रमाणाशीर पडल्यामुळे शेती व शेती संलग्न क्षेत्राचे उत्पादन
वाढले. व २०१७-१८ मध्ये पाऊस मान्सूनच्या सरासरीपेक्षा फक्त
८४.३% एवढाच पडला परिणामी २०१७-१८ मध्ये शेती पुन्हा
तोट्यात गेली.२००५ च्या तत्कालीन नियोजन आयोगाने जाहीर केलेल्या
अहवालानुसार महाराष्ट्रात शेतीवर अवलंबून असलेली लोकसंख्यांची
टक्केवारी ५५.३% इतकी होती. यात शेतकऱ्यांची संख्या २८.५%
आणि शेतमजुरांची संख्या २६.८% एवढी सांगितली आहे. तर
शेती आणि शेती संलग्न कार्यांचा राज्याच्या स्थूल उत्पन्नातील वाटा
११.९% एवढा आहे. म्हणजेच ५५.३% लोकसंख्येच्या राज्याच्या
उत्पन्नातील वाटा फक्त ११.९% एवढा अल्प आहे.

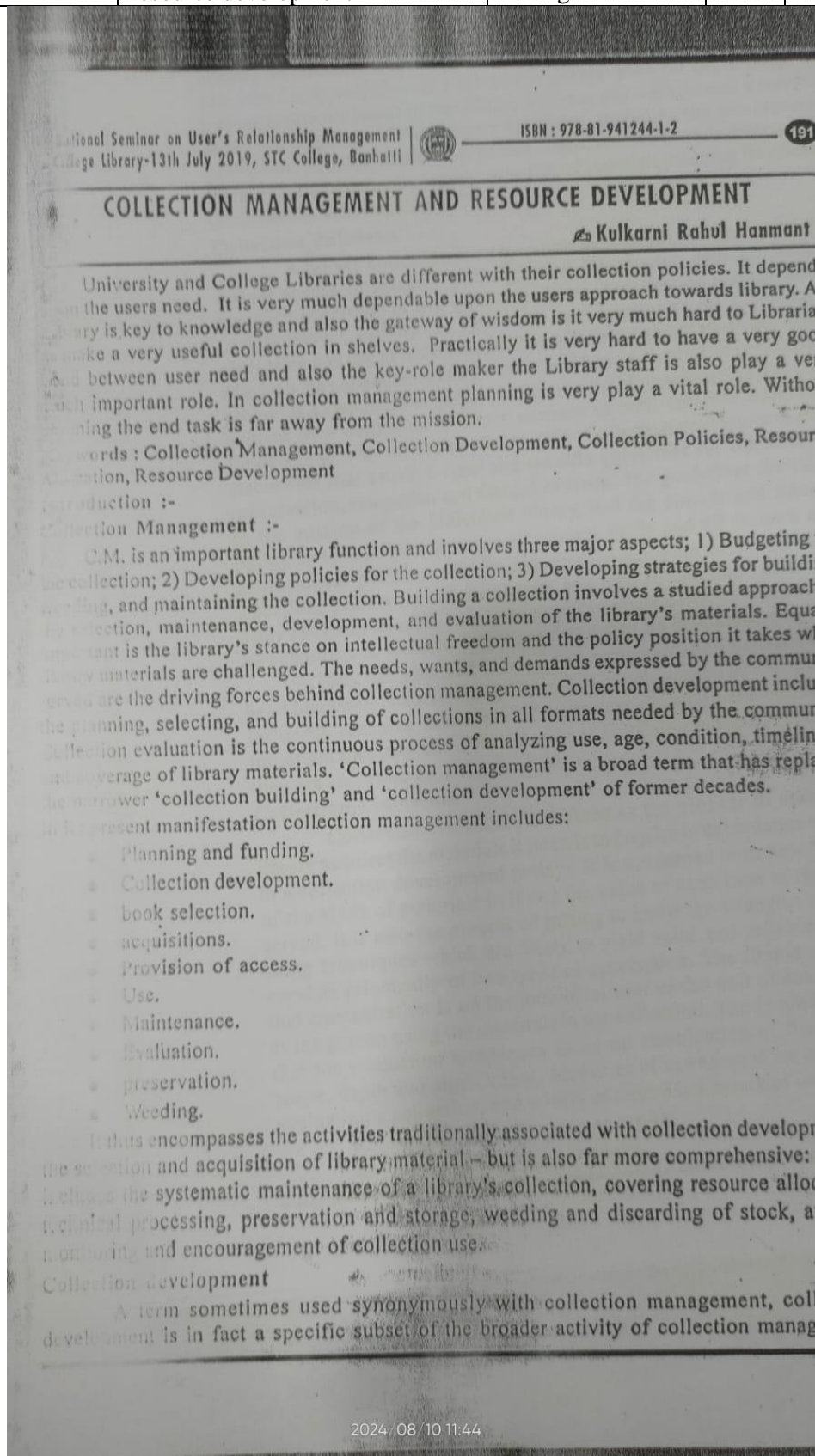
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56. Recent Trend in Rural Development in India

Prof. Suryawanshi Bhandaji Rangrao
 Shri Shivaji Mahavidyalaya, Barshi.

Introduction

Rural development is a process that aims at improving the standard of living of the people living in the rural areas. It may be defined as overall development of rural areas to improve the quality of life of rural people. It is an integrated process, which includes social, economical, political and spiritual development of the poor sections of the society.

Rural Development in India is one of the most important factors for the growth of the Indian economy. India is primarily an agriculture-based country. Agriculture contributes nearly one-fifth of the gross domestic product in India. In order to increase the growth of agriculture, the Government and Rural Development Minister, has planned several programs pertaining to Rural Development in India. The Ministry of Rural Development in India is the apex body for formulating policies, regulations and acts pertaining to the development of the rural sector. Agriculture, handicrafts, fisheries, poultry, and diary are the primary contributors to the rural business and economy.

Keywords: Rural Development, Agriculture.

Objective of the Study

1. To highlight recent trend in rural development in India.
2. To aware about recent trend in rural development in India.

Methodology and Data Sources

1. The present study is based on historical method.
2. This research is based on secondary data and information is collected from books, journals and websites.

Limitations of the Study

1. The paper is based upon a conceptual model.

What is Concept 'Rural Development'

"Rural development is a process that aims at improving the standard of living of the people living in the rural areas. It may be defined as overall development of rural areas to

(51)

(61)

Stress Management Techniques

Asst. Prof. Ramhari Nagtilak
 Shree Shivaji Mahavidyalaya, Barshi Dist-Solapur

Introduction

Stress management techniques in sport typically target somatic, behavioral, and/or cognitive affective symptoms of stress. Somatic responses involve the athlete's physiological reactions, such as changes in heart rate (HR), respiration (R), sweating, gastrointestinal functioning, muscular tension and control, pupil dilation, urinary system, and salivation. Behavioral responses are the direct actions taken because of the stress including engagement or disengagement in certain strategies or activities as well as distraction.

Finally cognitive affective responses include the thoughts associated with the stress including worries, beliefs, apprehensions and negative expectations about performance as well as action plans to manage stress. Distinguishing between and being aware of each of these aspects is important for the athlete, coach, and SP consultant, as this knowledge helps to ensure the appropriate stress management skills are applied.

Effective stress management also needs to recognize the temporal aspect of stress process. Stressful transactions in sport often involve anticipation, confrontation and post engagement stages and can result in an athlete feeling overwhelmed. Stress management technique can target specific stages or combination of stages.

Sources of stress

- Determine sources of good stress. There is both good and bad stress. For instance, you may be an individual who enjoys finishing the work report or leading your team down the field during the two-minute drill. Thus, you should determine what good stress is for you and what increases your performance at work on the field in the gym or in the classroom.
- Determine sources of bad stress. Distress can cause poor performance. Some people do not do well when they are stressed about a test. Other sources of stress could be family, work, or the big game. These sources of stress then lead to different ways we respond to stress.
- Realize how you respond to stress. People express stress physiologically, behaviorally, and cognitively. For instance, before a job interview your heart may be racing (physiological) you may pace back and forth (Behavioral) or you may say negative statements to yourself such as "This stinks! I can't do this!" (Cognitive). Once you know how you respond to stress you can choose the best ways to cope with stress.

Stress Reduction Techniques

Environment Methods- Reduce the importance of the Event, Reduce Uncertainties, and Listen to Music or Relaxation Tapes

Psychological Technique-Imagery Relaxation, Thought Awareness, Rational Thinking and Positive Thinking, remembering past good work, performance and achievement

Progressive Muscular Relaxation-PMR is useful for relaxing body muscle in tense. The idea behind PMR is that relaxing tense muscles normally. The process is moving from intense to deep muscular relaxation which helps the body parts fight or flight response free from stress.

- *Raise your eyebrows as high as you can*
- *Close your eyes as tightly as possible and keep them shut for five seconds*
- *Open your mouth as wide as possible as if you're yawning*

- Hold your arms in front of you and clench your fist as tightly as possible.
- Pull your shoulder muscles up towards your ears
- Bend your arms and tense your biceps as tightly as possible
- As you sit pull your legs together and push your thighs together, tightening the thigh muscles as you push inwards
- Tighten your abdominal muscles
- Curl your toes downwards as much as possible

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