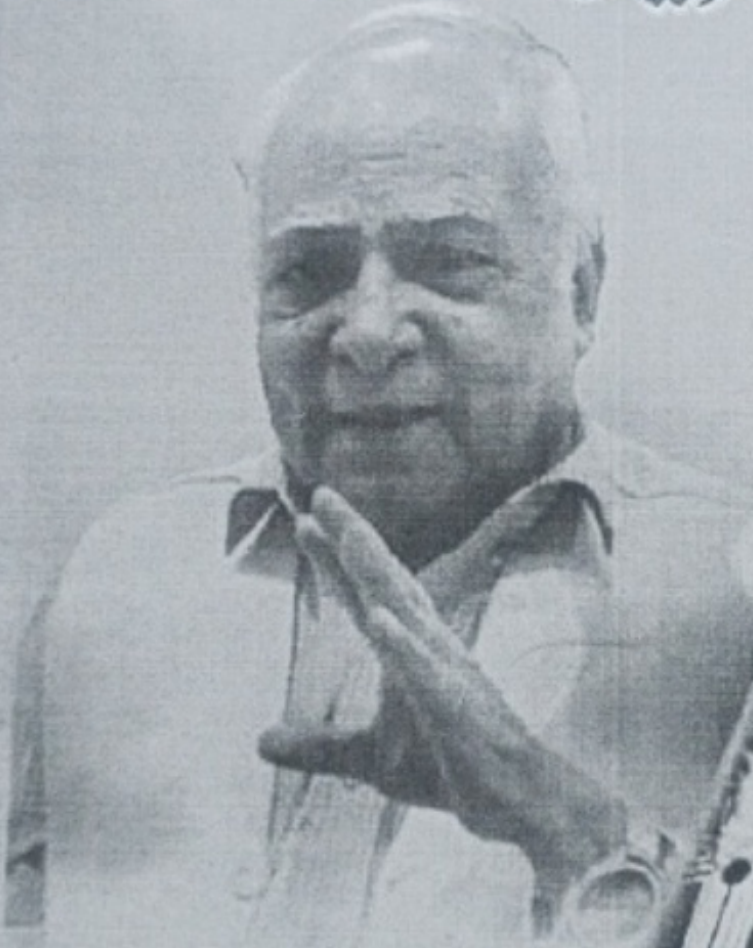


نور الحسنین کے افسانوں



کا تجزیاتی مطالعہ



مرتبہ: ڈاکٹر قمر النساء

PRINCIPAL
Kohinoor Arts Commerce & Science College
Khulda Aurangabad

NOOR-UL-HASNAIN KE AFSANO
KA
TAJZIYATI MUTALA

Edited By
Dr. Qamrunnisa Begum



ڈاکٹر قمر النساء جناب اکرام الدین متوطن خلد آباد، کے گھر پیدا ہوئیں۔ اُن کا گھرانہ تعلیم یافتہ ہے۔ اسی وجہ سے اُن کی تعلیم وہ تربیت پر خصوصی توجہ دی گئی۔ چنانچہ مراٹھواڑہ کالج آف ایجوکیشن اورنگ آباد سے اُنھوں نے بی۔ ایڈ کرنے کے بعد ڈاکٹر بابا صاحب امبیڈکر مراٹھواڑہ یونیورسٹی اورنگ آباد سے ایم۔ اے اُردو، وپی۔ ایچ ڈی کی ڈگری حاصل کی اور اس وقت ایسوی ایٹ پروفیسر کی حیثیت سے کوہ نور آرٹس، کامرس اینڈ سائنس کالج خلد آباد میں صدر شعبہ اُردو کے مقتدر عہدے پر فائز ہیں۔

اس کے علاوہ وہ ڈاکٹر بابا صاحب امبیڈکر مراٹھواڑہ یونیورسٹی کے بورڈ آف اسٹڈیز کی فیکلٹی ممبر اور ریسرچ گائیڈ کے فرائض انجام دے رہی ہیں۔ اُنھوں نے پچاس سے زائد مختلف موضوعات پر ریسرچ پیپرز تحریر کیے ہیں۔ اُردو ادب سے گہرا لگاؤ رکھتی ہیں، اور ایک فعال و مقبول شخصیت ہیں۔ نور الحسنین کے منتخب افسانوں کے تجزیوں پر مشتمل اُن کی یہ دوسری کتاب ہے۔

امید ہے کہ ادبی حلقوں میں پسندیدگی کی نظروں سے دیکھی جائے گی۔

ڈاکٹر عبد المجاہد انصاری، اورنگ آباد

**EDUCATIONAL
PUBLISHING HOUSE**
New Delhi, INDIA

PRINCIPAL ISBN 978-93-91238-11-7
Khushnagar Arts Commerce & Science College
Khudabad Aurangabad



978-93-91238-11-7
www.ephbooks.com



فہرست

09	ڈاکٹر قمر النساء	نورالحسین کی افسانہ نگاری	○ ✓
29	پتیل کی چھبیاں	افسانہ	○
41	احمد رشید علیگ، علی گڑھ	تجزیہ	○
49	کلمہ گو	افسانہ	○
59	ڈاکٹر اسلم جمشید پوری، میرٹھ	تجزیہ	○
66	رنگوں کے اسیر	افسانہ	○
76	معین الدین عثمانی، جل گاؤں	تجزیہ	○
81	۱۹ مارچ، ۲۳۵۰ء	افسانہ	○
89	ایم۔ بسین، بھیونڈی	تجزیہ	○
96	بچ بھنورندیا گہری	افسانہ	○
107	ڈاکٹر عظیم راہی، اورنگ آباد	تجزیہ	○
114	بازی گر	افسانہ	○
118	ڈاکٹر عبدالجہاد انصاری، خلد آباد	تجزیہ	○
124	ایک زندہ کہانی	افسانہ	○
133	ڈاکٹر قاضی نوید، اورنگ آباد	تجزیہ	○
139	وصیت	افسانہ	○
154	ڈاکٹر عالیہ کوثر، جالندہ	تجزیہ	○
162	آخری اسٹوری	افسانہ	○
171	ڈاکٹر قریشی عتیق احمد، بدناپور	تجزیہ	○
179	فقط بیان تک	افسانہ	○

Handwritten signature

PRINCIPAL
Kohinoor Arts Commerce & Science College
Khuldaabad Aurangabad



गांधीजी

Mahatma Gandhiji's
Sarvodaya Samkalpan

आणि

भारतीय वैचारिक जडणघडण

- संपादक -

डॉ. देवानंद सखाराम अंभोरे

एम.ए. (इंग्रजी, मानसशास्त्र),

बी.एड., एम.फिल., पीएच.डी. (मानसशास्त्र)

मानसशास्त्र विभाग प्रमुख,

श्री सरस्वती समाजकार्य महाविद्यालय, वाशिम

श्रीमती वंदना जालिंदर अंभोरे

एम.एससी., (वनस्पतीशास्त्र), बी.एड., एम.एड., एम. लिब.

ग्रंथपाल,

शासकीय अध्यापक महाविद्यालय, औरंगाबाद



प्रकाशक

आकांक्षा पब्लिकेशन

हिवरखेड (रूप.) ता. तेलहारा जि. अकोला

९०९६५९३८४२८

2021-22

PRINCIPAL
Kohinoor Arts Commerce & Science College
Khudabad Aurangabad



२३. महात्मा गांधीजीचे ग्रामीण विकासामध्ये योगदान
- सहा. प्रा. राजेश नारायण इंगोले १९९३ ते १९९६
२४. महात्मा गांधीजींचा ग्रामीण विकासातील दृष्टीकोण
- सहा. प्रा. उमेश अजयराव भुते १९९७ ते १९९९
२५. महात्मा गांधी आणि महिला सक्षमीकरण
- सहा. प्रा. दिगंबरकुमार प्रल्हादराव लांडगे १९९२ ते १९९५
२६. महात्मा गांधी आणि त्यांची शैक्षणिक भूमिका
- श्री. संजय किशन सालवे १९९६ ते १९९८
२७. महात्मा गांधीजीची सर्वोदय संकल्पना
- सहा. प्रा. तुकाराम सुर्यभानराव मोरे १९९९ ते १९९३
२८. महात्मा गांधीजीचे असहकार चळवळीतील योगदान
- श्रीमती रोहिणी राऊत १९९४ ते १९९७
२९. गांधीजी आणि रामराज्य
- कु. अर्चना जोशी १९९८ ते १९९९
३०. महिला सशक्तिकरणात गांधीजींची भूमिका
- श्री. धिरज सतिशराव नाईक १९९२ ते १९९८
३१. गांधीजींच्या कल्पनेतील - आजचा भारत
- श्रीमती वंदना जालिंदर अंभोरे १९९९ ते १९९३
३२. गांधीजींची सर्वोदय संकल्पना
- श्री. अमोल रामकिशन काकडे १९९४ ते १९९०
३३. गांधीजी के सामाजिक तथा शैक्षणिक विचार
- प्रा. विद्या बाबूराव खाडे १९९९ ते १९९३
३४. ग्राम सशक्तिकरण मे गांधीजी के विचार
- सहा. प्रा. विजय बळीराम भावरे १९९४ ते १९९०

[Signature]

PRINCIPAL
K. J. Somaiya Arts Commerce & Science College
Khairatpur, Mumbai
94888 94888

महात्मा गांधीजीची सर्वोदय संकल्पना

तुकाराम सुर्यभानराव मोरे

सहाय्यक प्राध्यापक

मानसशास्त्र विभाग,

कोहिनूर कॉलेज, खुलताबाद जि. औरंगाबाद



प्रस्तावना :

गार्डीयन या पाश्चात्य विचारवंताने गांधीजींना भारतीय राजकीय तत्त्वज्ञान व राजकारणातील संताची उपाधी दिली. कारण खाद्याची वस्त्रे घालून स्वदेशी, अहिंसा, सत्य, अपरिहा, सत्याग्रह, उपोषण या मार्गांचा अवलंब करून ब्रिटिश, जगातील देश व भारतीय जनतेला योग्य मार्गाने नेऊन स्वातंत्र्यप्राप्तीच्या अग्नीकुंड हा स्वातंत्र्य प्राप्त करूनच शांत केला. जहालमतवाद्यांमध्ये टिळक यांच्यापेक्षा मध्यम व अहिंसात्मक मार्गाने देशाला स्वातंत्र्य मिळवण्याची गांधीजींनी तळमळ ही मानवतेला जपत व उच्च प्राचीन साधन मार्गांचा वापर करून आधुनिक पद्धतीने, नैतिक आदर्शांचा परिपाठ घालून देतानाच धार्मिक, आध्यात्मिक मार्गांचा वापर करून राजकारणाच्या आध्यात्मिकरणातून व राजकीय चार्तुय वापरून घरखाचा स्वदेशी व आत्मनिर्भरतेसाठी उपयोग करून भारतातील लोकांचे स्वदेश प्रेम जागृत करून त्याचा उपयोग स्वातंत्र्य प्राप्तीसाठी करून घेतला. माझे सत्याचे प्रयोग या आत्मचरित्रातून सत्य हे ईश्वराचे खरे स्वरूप आहे. त्यांचा कर्म व पुर्नजन्म यांच्यावर विश्वास होता. कर्मानुसार फलप्राप्ती होते. त्यामुळे मनुष्य उत्तम कर्म करून आपल्या भवितव्याचा शिल्पकार बनू शकतो. आध्यात्मातील चिरंतन तत्त्वांचा आधार घेवून त्यावरच गांधीजींनी आपल्या राजकीय तत्त्वज्ञानाची उभारणी केली आहे.

गांधीजींवर हिंदू धर्मातील रामायन, महाभारत, गिता, उपनिषिधे यांचा प्रभाव होता. त्याचबरोबर बौद्ध धर्मातील अहिंसा, जैन धर्मातील इ.स. २ रे शतकातील सांमताभंद्रा (डिंगाबर पंथ) महाविराचे समकालीन २४ वे तिर्थंकर यांचा खूप मोठा प्रभाव होता. इ.स. पूर्व ५५० चिनमथ्ये कानफ्युसस व लाओत्से यांच्या तत्त्वज्ञानातील (Taoism Tao Means the Way) मधील शांतता आणि अहिंसा यांच्यासोबत थोरीओ यांच्याकडून संविनय कायदेभंग आणि Crown of Wild Olives मधुनही श्रमप्रतिष्ठा, लिओ टॉलस्टॉयसुन अहिंसात्मक असहाकाराची संकल्पना त्यांनी घेतली.

जॉन रस्कीनच्या 'Unto this Last' या पुस्तकातून गांधीजींनी डरबन (दक्षिण) आफ्रिका येथे वकीली करताना विल्यम ए. ग्लोवर मित्र (हेनरी

PRINCIPAL
Khulabadi Arts, Commerce & Science College
Khulabadi Aurangabad

Dr. C. Pradhan

2021-2022



Shikshainik Manasshastan

शैक्षणिक मानसशास्त्र



[Signature]

PRINCIPAL
Khatol Arts Commerce & Science College
Khatol Aurangabad

डॉ. चारुलता एस. प्रधान



शैक्षणिक मानसशास्त्र

डॉ. चारुलता एस. प्रधान

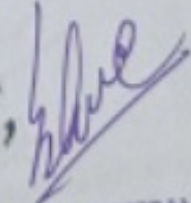
(एम.ए., बी.एड., डी.एस.एम., पीएच.डी.)

मानसशास्त्र विभाग

कोहिनूर कला, वाणिज्य व विज्ञान महाविद्यालय,

ता.खुलताबाद, जि.औरंगाबाद महा.

व्हाय आस्क पब्लीकेशन,
नवी दिल्ली


PRINCIPAL
Kohinoor Arts Commerce & Science College
Khuldabad Aurangabad

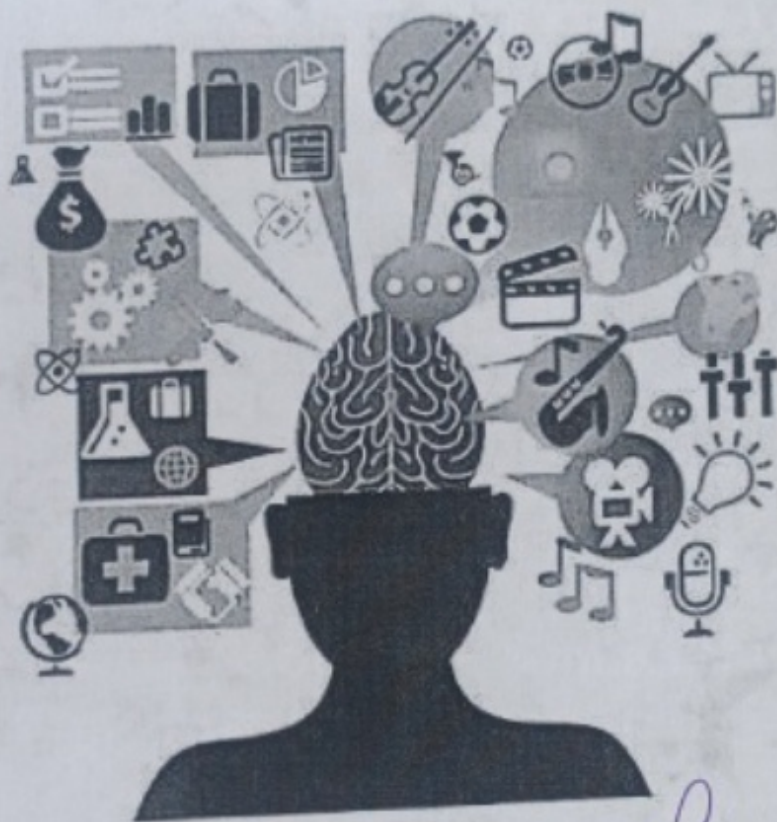


शैक्षणिक मानसशास्त्र

अनुक्रमणिका

प्रकरण क्रमांक	शिर्षक	पृष्ठ क्रमांक
१	शैक्षणिक मानसशास्त्र स्वरूप व चर्चा	०५
२	अध्ययन प्रक्रिया स्वरूप व उपपत्ती	३७
३	अध्ययनावर परिणाम करणारे घटक	६२
४	अध्ययनाचे संक्रमण	९१
५	अध्ययन व बालकाचा विकास	१०१
६	अध्यापन प्रक्रिया	१४०
७	अध्यापकाचे व्यक्तिमत्त्व	१६२
	संदर्भ ग्रंथ सूची	१८०

PRINCIPAL
Kohinoor Arts Commerce & Science College
Khuldabad Aurangabad



[Signature]
PRINCIPAL
Kohinoor Arts Commerce & Science College
Khulabadi Aurangabad

ISBN 978-81-952813-3-6



9 788195 281336

WHY ASK
Publication
New Delhi
7040006696

GLOBAL WARMING AND PLANET



Dr. Avinash B. Ade • Dr. Sumia Fatima

[Signature]
PRINCIPAL
Kohinoor Arts Commerce & Science College
Kharakabad Aurangabad

Published by:

DISCOVERY PUBLISHING HOUSE PVT. LTD.

4383/4B, Ansari Road, Darya Ganj

New Delhi-110 002 (India)

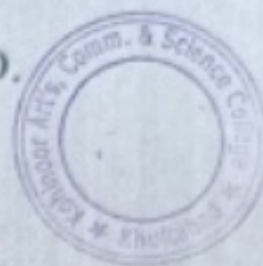
Phone : +91-11-23279245, 43596065, 23253475

E-mail : discoverybooksindia@gmail.com

discoverypublishinghouse@gmail.com

namitwasan9@gmail.com

web : www.discoverypublishinggroup.com



First Edition: 2022

ISBN: 978-93-88854-93-1

Global Warming and Planet

© Editors

All rights reserved. No part of this publication should be reproduced, stored in a retrieval system, or transmitted in any form or by any means: electronic, mechanical, photocopying, recording or otherwise, without the prior written permission of the author and the publisher.

This book has been published in good faith that the material provided by authors/editors is original. Every effort is made to ensure accuracy of material, but the publisher and printer will not be held responsible for any inadvertent error(s). In case of any dispute all legal matters are to be settled under Delhi jurisdiction only.

Printed at:

Infinity Imaging Systems
Delhi

PRINCIPAL
Mohinor Arts Commerce & Science College
Khuldabad Aurangabad

Global Warming and Planet

Pages: 166-178

Editors: Dr. Avinash B. Ade and Dr. Sumia Fatima

ISBN: 978-93-88854-93-1

Published by: Discovery Publishing House Pvt. Ltd., New Delhi (India)



Remote Sensing its Concept and Application

Dr. Rafiullah M. Khan

Introduction

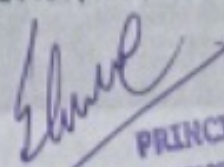
Remote sensing is the art and science of recording, measuring, and analyzing information about a phenomenon from a distance. It is also said that remote sensing is the acquisition of information about an object by a recording device that is not in physical contact with it. Generally today, the term is used to describe the process of collecting, viewing, interpreting, and analyzing aerial or satellite based images.

Early remote sensing images were taken by hot-air balloonists, rocket, cameras strapped to fleets of pigeon and kites. As technologies advanced throughout the remote sensing via cameras aboard airplanes became valuable things like that wartime reconnaissance, urban development, disaster damage assessment, land use surveys, agriculture status, and oil exploration.

Now a days, remote sensing images were obtained in a variety of creative ways. Remote sensing images taken from artificial satellites, that remote sensing expanded to the global scale. More than a dozen NASA satellites keep constant watch over earth. Thus, humans are naturally designed to be remote sensors, planes, and satellites that make it possible for the sensors to observe the earth from above. Through Remote sensing detecting and monitoring the physical characteristics of an area by measuring it's reflected and emitted radiation at a distance with the help of satellite or aircraft. Special cameras collect remotely sensed images, which help researchers 'sense' thing about the earth.

Assistant Professor and Head, U.G. & P.G. Department of Botany, Kohinoor Arts, Commerce and Science College, Khuldabad, Dist. Aurangabad - 431101(M.S.) India.

e-mail: rmkhan99@gmail.com


PRINCIPAL
Kohinoor Arts Commerce & Science College,
Khuldabad Aurangabad

भारतीय स्त्री

काल, आज आणि उद्या



:: संपादक ::

डॉ. तुकाराम फिसफिसे

डॉ. विश्वनाथ सूर्यवंशी



SNEHAL PUBLICATIONS

Parbhani-431401

PRINCIPAL

Kohinoor Arts Commerce & Science College-
Khuldabad Aurangabad



ISBN: 978-93-91998-09-7

Title: Bharateey Stree : Kaal, Aaj Ani Udyā

Editors: Dr. T. R. Fisfise and Dr. V. M. Suryawanshi

© Editors

First Edition : 8 March 2022

Published by

Secma Zade

for Snehal Publication,

104-A, Shivram Nagar, Parbhani - 431401.

Mob. + 91 8329000732

Email: snehalprinters92@gmail.com

Printed at

Snehal Printers and Book Binders,

104-A, Shivram Nagar, Parbhani – 431401

Mob. + 91 9730721393

Price: Rs 395/-

PRINCIPAL

Kohnoor Arts Commerce & Science College

Khudabad Aurangabad

All rights reserved. No material may otherwise be copied, reproduced, stored, or distributed without the copyright owner's prior written permission.

Academic facts, views, and opinions published in the book express the author's views solely. The author is responsible for their content, citation of sources and the accuracy of their references. The publisher cannot be held accountable for any lacks or possible violations of third parties rights.

भारतीय स्त्री : काल, आज आणि उद्या



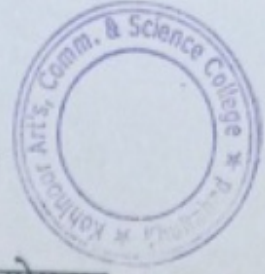
१७. कोविड १९ महामारीचा माहूर तालुक्यातील महीलांवर झालेल्या परीणामाचा एक चिकित्सक अभ्यास गणेश वामन पाटील	१०९
१८. खेळातील स्त्रीयांचे योगदान डॉ. अमोलसिंह दशरथसिंह गौतम	११७
१९. कौटुंबिक हिंसाचार भाग्यशाली अर्जुन घोंगडे, डॉ. तुकाराम फिसफिसे	१२०
२०. भारतीय स्वातंत्र्य चळवळ आणि महिला डॉ. सोमा पी. गोंडणे	१२६
२१. भारतीय स्वातंत्र्यलढ्यातील स्वातंत्र्यवीरांगना कॅप्टन लक्ष्मी सहगल डॉ. मधुकर विठोबा जाधव	१३४
२२. आदिवासी महिलांची स्थिती आणि गती डॉ. जिरेवाड लक्ष्मीकांत	१४१
२३. स्त्री - भ्रूण हत्या एक सामाजिक समस्या आर.बी. काळे	१४६
२४. स्त्री आणि जीवन विनया केशव कांबळे	१५०
२५. स्त्री भ्रूण हत्या एक नैतिक समस्या डॉ. कापरे राहुल ज्ञानेश्वर	१५७
२६. भारतातील स्त्रियांची सांस्कृतिक प्रगती सचिन नागोराव कसबे	१५९
२७. जगविख्यात स्वरसम्राज्ञी लता मंगेशकर यांचे संगीत क्षेत्रातील योगदान सविता कोकाटे	१६३
✓ २८. राजर्षी शाहू महाराज यांचे स्त्री उद्धाराच्या कार्यातील योगदान डॉ. गजानन रा. मुधोळकर	१६९
२९. भारतातील स्त्री साक्षरता डॉ. मुकटे आर. डी.	१७८
३०. भारतीय समाजातील लिंग असमानतेचा अभ्यास डॉ. गजानन बाबुराव मरगीळ	१८४
३१. लिंग असमानतेची समस्या डॉ. रवींद्र पुंजाजी मते	१९२
३२. कौटुंबिक हिंसाचार आणि स्त्रिया कविता अशोक मोराडे	१९६
३३. महिला सबलीकरणात बचत गटांचे महत्त्व गणेशकुमार पेटकर	२०३

६


PRINCIPAL
K. J. Somaiya Institute of Arts Commerce & Science College
Khudabad Aurangabad

भारतीय स्त्री : काल, आज आणि उद्या

२८.



राजर्षी शाहू महाराज यांचे स्त्री उद्धाराच्या कार्यातील योगदान

डॉ. गजानन रा. मुधोळकर
औरंगाबाद.

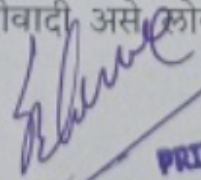
गोषवारा :

महाराष्ट्रच नव्हे तर देशाचे समाजकारण आणि राजकारण ज्या-ज्या महापुरुषांच्या वा सुधारकांच्या विचारांनी प्रभावित झालेले आहे. तसेच बहुजन समाजाला व स्त्रियांना माणूस म्हणून जगण्याचा अधिकार प्राप्त करून दिला आहे त्यांच्या विचारांचा, सुधारणावादी व परिवर्तनवादी धोरणाचा समाजशास्त्रीय अंगाने चिंतन, मनन करून आजच्या परिस्थितीत, आजच्या काळात त्या विचारांचे मोल हे पुन्हा एकदा समाजापर्यंत नेण्याचे कार्य हे या लेखामागचा उद्देश्य आहे. राजर्षी शाहू महाराजांच्या स्त्रीविषयक कार्याचा आढावा प्रस्तुत लेखात घेतला गेला असून महाराष्ट्राला लाभलेल्या पुरोगामी विचारवंतांमध्ये राजर्षी शाहू महाराजांचे एक वेगळेपण आढळते. राजर्षी शाहू महाराजांनी महात्मा जोतीबा फुले यांनी सत्यशोधक चळवळीच्या माध्यमातून समता आणि समानतेची पर्यायी संस्कृती निर्माण केली. ती परंपरा महाराष्ट्रामध्ये खंडीत न होवू देता राजर्षी शाहू महाराजांनी त्यांच्या कार्यातून ती अबाधित ठेवली ही महत्त्वाची बाब आहे. या अनुषंगाने शाहू महाराजांच्या स्त्री विषयक विचारांचे व कार्याचे वेगळेपण या विषयाची मांडणी प्रस्तुत लेखात करण्यात आली आहे.

प्रस्तावना :

महाराष्ट्राला लाभलेल्या पुरोगामी विचारवंतांमध्ये राजर्षी शाहू महाराजांचे एक वेगळेपण आहे. ते वेगळेपण म्हणजे ज्याला आपण राजा, शासक असे म्हणतो, परंतु शोषित वर्गासाठी व स्त्रियांच्या समस्यांसाठी आपले आयुष्य पणाला लावणारा असा हा राजा महाराष्ट्रातीलच नव्हे तर भारतात एकमेव राजा होता. महात्मा ज्योतीबा फुले यांनी समाजात समता आणि समानतेचे बीज पेरले. अज्ञान आणि गुलामगिरीच्या वेढ्यात शेकडो वर्षे खितपत पडलेल्या स्त्रीया आणि शुद्रातीशूद्रांनी ज्ञानाचा आणि सत्याचा मार्ग दाखविला. महात्मा ज्योतीबा फुल्यांची ही महाराष्ट्रातील परंपरा छत्रपती शाहू महाराजांनी त्यांच्या कार्यातून अखंडपणे व अबाधित चालू ठेवली. प्रवाहित होत राहिली शाहू पूर्व काळामध्ये सुद्धा काही संवेदनशिल, बुद्धीवादी असे लोक होते, ज्यांनी

१६९


PRINCIPAL
Kohinor Arts Commerce & Science College
Khuldabad Aurangabad



OBJECTIVE PHYSICS

For B.Sc. Students

[Signature]

PRINCIPAL
Kohinoor Arts Commerce & Science College
Khuldabad Aurangabad

2021-2022

Editor : Dr. C. M. Kale

OBJECTIVE PHYSICS

For B.Sc. Students

Edited by
Dr. C. M. Kale

Published by
Rushi Publication
B-115, Gajanan Colony, Gharkheda
Aurangabad-431005
E-mail: rushipublication27@gmail.com

Copyright © 2021
Reserved with authors

Edition
First Edition
30 April 2021

Typesetter
Shravani Graphics, Sillod

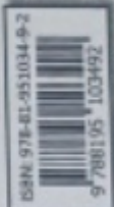
Printed at
Om Print
MIDC, Chikalthana
Aurangabad-(M.S.) India

Total Pages
360

Distributor
Mr. Rahul B. Gavande

Price
Rs. 450/-

ISBN: 978-81-951034-9-2



Note: The information written by every author(s) in this book is his manuscript. It has no concern at all with the publisher, the editor, or the editorial board.

FOREWORD

It gives me an immense pleasure to introduce this book consisting of multiple choice questions based on undergraduate (B.Sc.) Physics curriculum by the Editor Dr. C. M. Kale of Indira Arts, Commerce and Science College, Sillod. Dr. C. M. Kale and his co-authors have been teaching this subject for over twenty years and achieved thorough depth in the subject.

This book covers the current syllabus prescribed for the B.Sc. 1st, 11th and 111rd year students and deals with the multiple choice questions generated on various topics of Physics with optimum level. M.C.Qs are also set on application of laws, principles and concepts of Physics.

I am sure, the book will prove a boon to students of B.Sc. as well as those students who are appearing for SET, NET, PET and other competitive examinations and help them to acquire sound knowledge of the Physics.

In today's pandemic situation all universities are going for online MCQ type examinations as well. For them this book will be a very useful to teachers.

Dr. K. M. Jadhav

Dr. K. M. Jadhav
Senior Professor
Dept. of Physics,
Dr. B. A. M. U. Aurangabad.

Dr. B. A. M. U. Aurangabad

PRINCIPAL
Kohinoor Arts Commerce & Science College
Khandeshwar Aurangabad



7. THERMODYNAMICS

Mr. Ramesh T. Ubale
Assistant Professor, Department of Physics
Siddharth Arts, Commerce and Science College, Jalgaon.
Dist. Jalgaon

8. ENTROPY AND THERMODYNAMIC RELATIONS

Dr. Sudarshana G. Badhe
Assistant Professor, Department of Physics
R. B. Arsal College, Georai. Dist. Beed.

SECTION-III :

GEOMETRICAL AND PHYSICAL OPTICS

9. GEOMETRICAL OPTICS AND OPTICAL INSTRUMENTS

Dr. Shailendra B. Kollhe
Assistant Professor, Department of Physics
Shivaji Arts, Commerce and Science College, Kannad.
Dist. Aurangabad

10. INTERFERENCE

Mr. Vitthal V. Galkwad
Assistant Professor, Department of Physics
Moreswar College of Arts, Science and Commerce,
Bhokardan. Dist. Jalgaon

11. DIFFRACTION

Dr. Vishwamber P. Deshpande
Associate Professor, Department of Physics
Shivaji Arts, Commerce and Science College, Kannad.
Dist. Aurangabad

12. POLARIZATION

Dr. Atul P. Kechhe
Assistant Professor, Department of Physics
MSP Mandal's Shri Muktanand College, Gangapur
Dist. Aurangabad.

SECTION-IV :

ELECTRICITY AND MAGNETISM

13. VECTOR ALGEBRA

Dr. Padmakar G. Sasane
Assistant Professor and Head, Department of Mathematics
Vasantdada Patil College, Patoda. Dist. Beed.

14. ELECTROSTATICS

Dr. Chandrakant T. Birajdar
Associate Professor, Department of Physics
Shri Madhavrao Patil Mahavidyalaya, Murum.
Dist. Osmanabad

15. MAGNETOSTATICS

Dr. Ashok K. Dongare
Assistant Professor and Head, Department of Physics
Vasantdada Patil College, Patoda. Dist. Beed.

TRANSIENT CURRENTS

Dr. Balwan U. Patil
Assistant Professor and Head, Department of Physics
Kohinoor College, Khuldabad. Dist. Aurangabad

SECTION-V :

MATHEMATICAL, STATISTICAL PHYSICS AND RELATIVITY

17. DIFFERENTIATION AND ORDINARY DIFFERENTIAL EQUATION

Ms. Vrushali C. Karade
Assistant Professor, Department of Physics
MSP Mandal's Shri Muktanand College, Gangapur
Dist. Aurangabad.

18. STATISTICAL BASIS AND CLASSICAL STATISTICS

Mrs. Suvarna B. Patil
Assistant Professor, Department of Physics
Deogiri College, Dist. Aurangabad.

19. QUANTUM STATICS

Dr. Pravin K. Galkwad
Assistant Professor, Department of Physics
Shri Chhatrapati Shivaji College, Omerga.
Dist. Osmanabad

20. THEORY OF RELATIVITY

Dr. Suresh T. Alone
Assistant Professor and Head, Department of Physics
Rajarshi Shahu Arts, Commerce and Science College,
Patodi. Tal. Phulambri. Dist. Aurangabad.

SECTION-VI :

MODERN AND NUCLEAR PHYSICS

21. PHOTOELECTRIC EFFECT

Dr. Surekha B. Jaiswal
Assistant Professor and Head, Department of Physics
Moreswar Arts, Science and Commerce College,
Bhokardan. Dist. Jalgaon

- 44]. What is the magnetic flux of magnetic field intensity $6.28 \times 10^{-4} \text{ Wb/m}^2$, through surface area $3.14 \times 10^{-4} \text{ m}^2$?
- (a) $1970 \times 10^{-4} \text{ Wb}$
 (b) $19.71 \times 10^{-4} \text{ Wb}$
 (c) $1.97 \times 10^{-4} \text{ Wb}$
 (d) $0.197 \times 10^{-4} \text{ Wb}$

- 45]. If 'q' is the charge passing through coil of Ballistic Galvanometer so that suspension wire is twisted through an angle θ , then, ---
- (a) $q \propto \theta^2$
 (b) $q \propto \theta^3$
 (c) $q \propto \theta$
 (d) $q \propto \frac{1}{\theta}$

- 46]. The statement 'if the current is passed through a coil, suspended freely in a magnetic field, it experiences a force, whose direction is given by Fleming's left-hand rule is, ---
- (a) Ampere's law
 (b) Faraday's law
 (c) Biot-Savart's law
 (d) Principle of moving coil B.C.

- 47]. The magnetic field at a distance of 2.3m from the axis of a long straight wire is $13 \times 10^{-5} \text{ Wb/m}$. What is the current in the wire?
- (a) 1500A
 (b) 150A
 (c) 15A
 (d) 1.5A

- 48]. The solenoid has 1200 turns on a 2m long glass tube of 0.2m diameter. What is magnetic induction at the center of the solenoid?
- (a) $1.5 \times 10^{-3} \text{ Wb/m}$
 (b) $2.5 \times 10^{-3} \text{ Wb/m}$
 (c) $3.5 \times 10^{-3} \text{ Wb/m}$
 (d) $4.5 \times 10^{-3} \text{ Wb/m}$

- 49]. Magnetic flux density at the end of one meter long solenoid and radius 0.1m carrying current of 1A and having N turns is, ---
- (a) $\mu_0 N$
 (b) $2\mu_0 N$
 (c) $\frac{3\mu_0 N}{2}$
 (d) $\frac{\mu_0 N}{2}$

- 50]. Lorentz force on a moving charge is, ---
- (a) $F = q[E + V \times B]$
 (b) $F = q[E \times V + B]$
 (c) $F = q[E \times V \times B]$
 (d) $F = q[E + V \times B]$

- 51]. Magnetic field is a, ---
- (a) Tensor field
 (b) Vector field
 (c) Phaser field
 (d) Scalar field

16.

TRANSIENT CURRENTS

MULTIPLE CHOICE QUESTIONS

- 1]. Transient current is, ---
- (a) Stationary current
 (b) An oscillatory current
 (c) Not a current
 (d) None of these
- 2]. Generally an electrical circuit has, ---
- (a) Resistance (R)
 (b) Inductance (L)
 (c) Capacitance (C)
 (d) All of these
- 3]. For the decay of current in LR circuit, time constant is the time required to fall the current from maximum value to,
- (a) 0.386 times maximum current
 (b) $1/0.386$ times maximum current
 (c) $1/0.0386$ times maximum current
 (d) 386 times maximum current
- 4]. The ratio L/R is called, ---
- (a) Time constant
 (b) Time ratio
 (c) Time decay
 (d) Decay constant
- 5]. The apparent power is calculated by, ---
- (a) $E_{rms} \times I_{rms}$
 (b) $E_{rms} + I_{rms}$
 (c) E_{rms} / I_{rms}
 (d) $E_{rms} - I_{rms}$
- 6]. In a LR circuit, $L = 50 \text{ mH}$ and $R = 10 \text{ ohm}$, then time constant of the circuit is, ---
- (a) 0.5 sec
 (b) 5 sec
 (c) 0.05 sec
 (d) 50 sec



Recent Studies *On* **CLIMATE CHANGE**

Dr. Rafiullah M. Khan
Dr. Syed Yousuf Hussain

Salim

PRINCIPAL
Kinnaird College, Khulna



Recent Studies on Climate Change

Dr. Rafiullah M. Khan

Dr. Syed Yousuf Hussain



❖ Publisher :

Harshwardhan Publication Pvt.Ltd.

Limbaganesh, Dist. Beed (Maharashtra)

Pin-431126, vidyawarta@gmail.com

❖ Printed by :

Harshwardhan Publication Pvt.Ltd.

Limbaganesh, Dist. Beed, Pin-431126

www.vidyawarta.com

❖ Page design & Cover :

H.P. Office (Source by Google)

❖ Edition: Nov. 2021

ISBN 978-93-92584-41-1

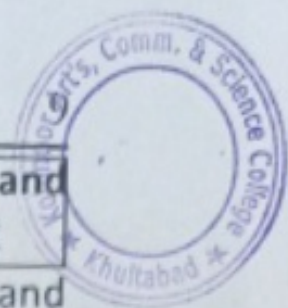
❖ Price : 200/-

Signature
PRINCIPAL
Khatimoor Arts Commerce & Science College
Khulabad Aurangabad



All Rights Reserved, No part of this publication may be reproduced, or transmitted, in any form or by any means, electronic mechanical, recording, scanning or otherwise, without the prior written permission of the copyright owner. Responsibility for the facts stated, opinions expressed, Conclusions reached and plagiarism, If any, in this volume is entirely that of the Author. The Publisher bears no responsibility for them. What so ever. Disputes, If any shall be decided by the court at Beed (Maharashtra, India)

Recent Studies on Climate Change



VIII -Acid Rain: Chemical Reactions Involved, Causes and How to Reduce - 142 - 162

Introduction: Effects of Acid Rain-Effects on Fish and Other Aquatic Life, Effects on Plants and Trees, Effects on Structures, Effects on Human Body. Global Acid Rain Problems- Effects of Acid Rain in India, Effects of Acid Rain in China, Effects of Acid Rain in America and Canada, Effects of Acid Rain in Europe. Reduction Policies of SO₂ and NO_x, Recommendations, Reduce acid rain, References.

- Prof. Sherkhan Y. Pathan

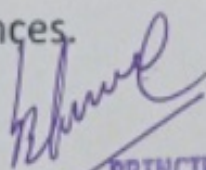
IX -Temperature Perspective of Climate Change -163 - 171

Introduction: What role has the Sun played in climate change in recent decades? Climate is always changing. Why is climate change of concern now? Is the current level of atmospheric CO₂ concentration unprecedented in Earth's history? Did the slowdown of warming during the 2000s to early 2010s mean that climate change is no longer happening? Is the climate warming? If the world is warming, why are some winters and summers still very cold?

- Prof. MohdKhizar Sayed

X -Biotransformation of Benzonitrile - 172 - 182

Introduction: Xenobiotic compounds-pollutant, Methods to eliminate pollutant, Aromatic Nitriles-a pollutant, Benzonitrile properties, Toxicity and uses, Application of Benzonitrile, Benzoic acid and Benzamide, Biotransformation of benzonitrile, References.


- Dr. Vaishali H. Ajane

XI -An overview on how Biomolecule Plays Role of Neurotransmitters - 183 - 197

Introduction: Amino Acid Functions, Excitatory Neurotransmitters, Inhibitory Neurotransmitters, Amino Acid



Acid Rain- Chemical Reactions Involved, Causes and How to Reduce

Pathan Sher Khan Yusuf Khan

Assistant Professor

Department of Chemistry

Kohinoor Arts Commerce and Science College Khulatabad

Introductions

Acid rain, or acid deposition, is a broad term that includes any form of precipitation with acidic components, such as Sulfuric or nitric acid that fall to the ground from the atmosphere in wet or dry forms. This can include rain, snow, fog, hail or even dust that is acidic. Since the beginning of civilization, human beings have used various natural resources for their benefit. To make their life easier, they have produced facilities that use many of the Earth's energy resources. On one side this kind of development makes our lives easier, but on the other hand it results into pollution by release harmful substance into environment. Acid rain is the most serious environmental problems emerged due to air pollution. Acid rain is particularly damaging to lakes, streams and forests, and the plants and animals that live in these ecosystems. Rain is one of the most essential ingredients for human and animal life. The water provided by rain allows all life on Earth to survive. Although rain is naturally acidic, it is being increasingly acidified by pollution from homes, factories,

Principal
Kohinoor Arts Commerce & Science College
Khulatabad Aurangabad

GLOBAL WARMING AND PLANET

Dr. Shalekham pathan 2021-22

Dr. Avinash B. Ade • Dr. Sumia Fatima



Sumia

PRINCIPAL
Arts Commerce &
Khakhsad Ave



Published by:

DISCOVERY PUBLISHING HOUSE PVT. LTD.

4383/4B, Ansari Road, Darya Ganj

New Delhi-110 002 (India)

Phone : +91-11-23279245, 43596065, 23253475

E-mail : discoverybooksindia@gmail.com

discoverypublishinghouse@gmail.com

namitwasan9@gmail.com

web : www.discoverypublishinggroup.com

First Edition: 2022

ISBN: 978-93-88854-93-1

Global Warming and Planet

© Editors

All rights reserved. No part of this publication should be reproduced, stored in a retrieval system, or transmitted in any form or by any means: electronic, mechanical, photocopying, recording or otherwise, without the prior written permission of the author and the publisher.

This book has been published in good faith that the material provided by authors/editors is original. Every effort is made to ensure accuracy of material, but the publisher and printer will not be held responsible for any inadvertent error(s). In case of any dispute, all legal matters are to be settled under Delhi jurisdiction only.

Printed at:

Infinity Imaging Systems
Delhi

PRINCIPAL
Khinor Arts Commerce & Science College
Khulda, Khulda

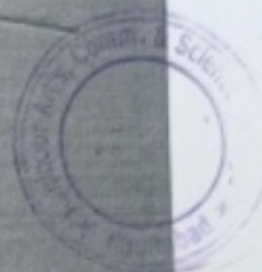
Global Warming and Planet

Editors: Dr. Avinash B. Ade and Dr. Sumia Fatima

ISBN: 978-93-88854-93-1

Published by: Discovery Publishing House Pvt. Ltd., New Delhi (India)

Pages: 50-58



Global Warming *Causes, Effects and Solutions*

Pathan Sher Khan Yusufkhan

Global warming is defined as the gradual increase in the earth's temperature due to the greenhouse effect caused by higher levels of carbon dioxide, CFCs, and additional pollutants.

Global warming is the process of a gradual increase in the temperature near the earth's surface. Global warming has been observed in the past ten or twenty decades. This change has been disturbed the climatic pattern of the earth. The concept of global warming is enough controversial, but the scientists have delivered relevant data in support of the fact that the temperature of the earth is increasing constantly. There are some causes of global warming, which have a bad effect on humans, plants, and animals. These causes may be natural or might be the outcome of human activities. To stop the issues, it is very important to understand the hurtful impacts of global warming.

Causes of Global Warming

Man-made causes

Use of Vehicles

The use of automobiles results in various gaseous releases. Vehicles burn fossil fuels which produce a large amount of carbon dioxide and other pollutants into the atmosphere resulting in a rise of temperature.

PRINCIPAL

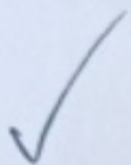
Kohinoor Arts Commerce & Science College, Khuldabad, Aurangabad



BASALTIC FLOWS IN GHAT SECTION

PRINCIPAL
Khatolkar Arts Commerce & Science College
Khairabad Aurangabad

Dr. Prashant Uttamrao Terker



Published By

Oxford Book Company

Regd. Off. "Bony Residency", Gate No. 2
Opp. Tilak Public School, Vishweswariya Nagar,
Gopalpura Road, Jaipur - 302018, India
Ph: 0141 - 2761280, Telefax: 2761381
email - oxfordbookjpr@gmail.com
website - oxfordbookcompany.com

Delhi Office: 102, 1st Floor, Satyam House,
4327/3, Ansari Road, Darya Ganj,
New Delhi - 110002, India
Ph: 011-45652440

Distributor By

KEYA INTERNATIONAL PRESS LLP

E-mail: keyainternationalpressllp@gmail.com



First published in India, 2022

© All Rights Reserved

ISBN : 9789391096205

All Rights Reserved. No part of this publication may be reproduced, stored in a retrieval system, or transmitted, in any form or by any means, electronic, mechanical, photocopying, recording, scanning or otherwise, without the prior written permission of the copyright owner.

Typeset by Shivangi Computers, Jaipur

Printed and bound in India by Thomson Press Ltd.,
New Delhi

Late. M
Late

PRINCIPAL
Johinor Arts Commerce & Science College
Khairatabad Aurangabad



Contents

<i>Preface</i>	<i>ix</i>
1. Introduction	1
2. Ghat Traverses	25
3. Characters of Basalt Flows	75
4. Petrography of Basalt Flows	92
5. Discussion and Conclusion	129
<i>Bibliography</i>	157
<i>Index</i>	179

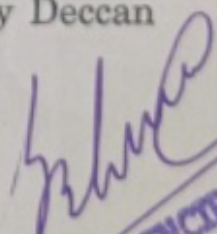
PRINCIPAL
Kohinoor Arts Commerce & Science College
Khultabad Aurangabad



1

INTRODUCTION

The end of Cretaceous era was marked by catastrophic event which was manifested by volcanic activity which resulted in the form of outpouring of enormous quantity of basaltic lava that covered hundred of sq. km of Western; Central and South India. The term Deccan Trap was first introduced by W. H. Sykes in 1833 after Swedish word Trap/Trappa which means step like or terrace like formation. (Fig.1.1) After Igneous and Metamorphic complex of Archean era in Peninsular India (Fig.1.2) this is the second most extensive geological formation. Deccan Trap encompasses today area of about 516000 square km. covers large part of Kutch, Saurashtra, Gujarat, Maharashtra, Madhya Pradesh and Karnataka. Except East parts of Nagpur district whole of Chandrapur; Gadchiroli and Bhandara districts and southern part of Sindhudurg district, all other districts of Maharashtra are occupied by Deccan


PRINCIPAL
Commerce & Science
Aurangabad



Recent Studies *On* **CLIMATE CHANGE**

Dr. Rafiullah M. Khan
Dr. Syed Yousuf Hussain

[Signature]
PRESIDENT
Kohinoor Arts Comm. & Science Coll.,
Khulatabad, Islamabad



IV -Water Pollution; Causes; Effects and Control - 71 - 100

Introduction: Main Sources of water, Demand for water; water pollution; physical and chemical pollution of water, Parameters of water pollution, Effects of water pollution water pollution due to industries, Effects of Metal water pollutants, Measures to control water Pollution; Rain water harvesting Aquifer recharge, Reusing the waste water, New irrigation methods, People's participation to control water pollution and enforcement of laws.

- Dr. Prashant U. Terker

V -Air Pollution: Causes, Effect and Solutions - 101 - 108

Introduction: Various Causes of Air pollution, Agricultural Activities, various chemical and synthetic products. Effects of Air Pollution- Respiratory and Heart Problems, Child Health Problems, Global Warming, Acid Rain, Eutrophication, Effect on Wildlife, Ozone Layer depletion. Solutions: Mass Transportation, Good Household Practices, Energy conservation, Reduce, Reuse and Recycle, Renewable Energy Resources, Use Energy-Efficient Devices, References.

- Dr. Syed Abdul Aziz

VI -Environmental Diseases - 109 - 127

Introduction: Adverse effect of UV, Pollution related Disease, Diseases through polluted air, Diseases through to polluted water, Diseases due to Other Biological agents of environment, References

- Dr. Tahesinkhan D. Pathan

VII -Fluoride: An Acute Toxin -128 - 141

Introduction: Atmospheric pollution from industry emissions, Impact of fluoride on health, Dental fluorosis, Skeletal fluorosis, Non-skeletal fluorosis, Harm to plants, Harm to wild animals, Harm to domestic animals, References

- Dr. Syed Yousuf Hussain



A handwritten signature in blue ink, likely belonging to the Principal.

PRINCIPAL

Kohinoor Arts Commerce & Science
Khulda Aurangabad



Water Pollution; Causes; Effects and Control

Dr. Prashant Uttamrao Terker

Head, Dept. Of Geology

Kohinoor Arts, Commerce, Science College, Khultabad.

Introduction:

Water is one of the most abundantly available substances in nature. It is an essential constituent of all animal and vegetable matter and forms about 75% of the matter of earth crust. Water is also an essential ingredient of animal and plant life. Water has unique property of dissolving and carrying in suspension huge quantities of chemicals. Since rain water is produced by the process of distillation, it is considered to be the purest form of water. India, being vast country, with an area about 806 million acres. Rainfall constitutes the most important and largest source of water. In hilly Himalayan areas the snow melts at mountain regions resulting in the form of rivers.

Chief Sources of Water:

The chief sources of water are (a) Ground water (b) Surface water (c) Sea water and (d) Rain water.

Ground water may come from springs, shallow wells and deep wells surface water is flowing water in the form of stream or river and still water like ponds and lake.

Although sea water is abundantly available it is not used in large quantity.

Rain fall is considered to be main source of ground

[Signature]
PRINCIPAL
Kohinoor Arts Commerce & Sci
Khultabad Aurangabad

Recent Studies on Climate Change



Dr. Rafiullah M. Khan
Dr. Syed Yousuf Hussain

❖ Publisher :

Harshwardhan Publication Pvt.Ltd.
Limbaganesh, Dist. Beed (Maharashtra)
Pin-431126, vidyawarta@gmail.com

❖ Printed by :

Harshwardhan Publication Pvt.Ltd.
Limbaganesh, Dist. Beed, Pin-431126
www.vidyawarta.com

❖ Page design & Cover :

H.P. Office (Source by Google)

❖ Edition: Nov. 2021

ISBN 978-93-92584-41-1

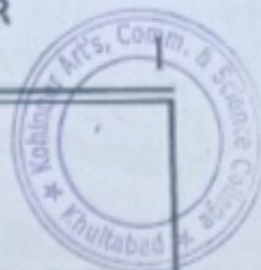
❖ Price : 200/-

Handwritten signature
PRINCIPAL

Kohinoor Arts Commerce & Science College
Khulabed Aurangabad



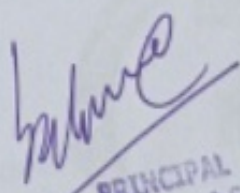
All Rights Reserved, No part of this publication may be reproduced, or transmitted, in any form or by any means, electronic mechanical, recording, scanning or otherwise, without the prior written permission of the copyright owner. Responsibility for the facts stated, opinions expressed. Conclusions reached and plagiarism, If any, in this volume is entirely that of the Author. The Publisher bears no responsibility for them. What so ever. Disputes, If any shall be decided by the court at Beed (Maharashtra, India)



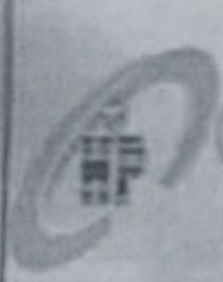
PHYSICOCHEMICAL PROPERTIES OF GROUND WATER OF BELLUR VILLAGE

DR. SYED YOUSUF HUSSAIN

Assistant Professor & Head Department of Chemistry,
Kohinoor Arts, Commerce & Science College Khuldabad,
Dist . Aurangabad


PRINCIPAL
Kohinoor Arts Commerce & Science
Khuldabad Aurangabad

Reg.No.U74120 MH2013 PTC 251205

 **Harshwardhan Publication Pvt.Ltd.**
At.Post.Limbaganesh,Tq.Dist.Beed
Pin-431126 (Maharashtra) Cell:07588057695,09850203295
harshwardhanpubli@gmail.com, vidyawarta@gmail.com

All Types Educational & Reference Book Publisher & Distributors / www.vidyawarta.com

PHYSICOCHEMICAL PROPERTIES OF GROUND WATER
OF BELLUR VILLAGE



PHYSICOCHEMICAL PROPERTIES OF GROUND
WATER OF BELLUR VILLAGE

© DR. SYED YOUSUF HUSSAIN

❖ Publisher :

Harshwardhan Publication Pvt.Ltd.
Limbaganesh, Dist. Beed (Maharashtra)
Pin-431126, vidyawarta@gmail.com

❖ Printed by :

Harshwardhan Publication Pvt.Ltd.
Limbaganesh, Dist. Beed, Pin-431126
www.vidyawarta.com

❖ Page design & Cover :

H.P. Office (Source by Google)

❖ Edition: Feb. 2022

ISBN 978-93-92584-18-3

❖ Price : 200/-

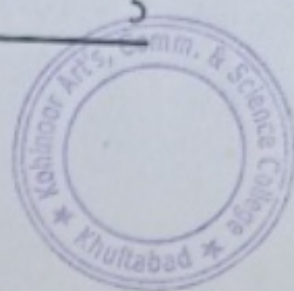
Signature
PRINCIPAL
Kohinor Arts Commerce & Science College
Khultabad Aurangabad



All Rights Reserved, No part of this publication may be reproduced, or transmitted, in any form or by any means, electronic mechanical, recording, scanning or otherwise, without the prior written permission of the copyright owner. Responsibility for the facts stated, opinions expressed. Conclusions reached and plagiarism, If any, in this volume is entirely that of the Author. The Publisher bears no responsibility for them. What so ever. Disputes, If any shall be decided by the court at Beed (Maharashtra, India)

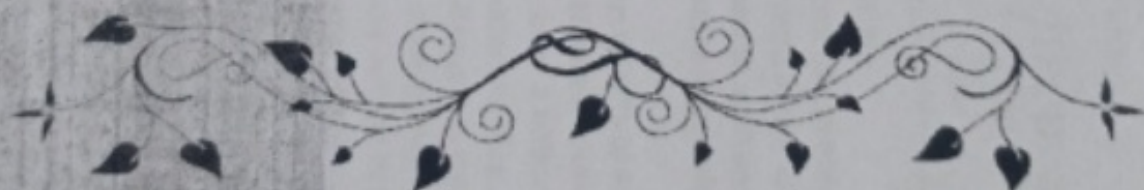
PHYSICOCHEMICAL PROPERTIES OF GROUND WATER
OF BELLUR VILLAGE

5



CONTENTS

Particulars	Page No.
List of Study areas	06-10
Chapter – I Introduction	11-19
Chapter – II Methods and materials	20-46
Chapter – III Results and Discussions	47-63
Summary and Conclusion	64-66
References	67-74
Publications	75-84



Shiv

PRINCIPAL
Kohinoor Arts Commerce & Science College
Khulatabad Aurangabad



STUDY AREA- V

Hand pump in front of Waghnare's house



CHAPTER - I

INTRODUCTION

1.1 INTRODUCTION

In recent years the problem of water pollution has been receiving increased attention. In many countries water pollution has increased to such an extent that health authorities have declared water in certain area unfit for human consumption.

The disastrous effects of air and water pollution were first felt in the industrialized countries by the people living in big cities. Currently, over a billion people in the world have less than 50 lit. of water per day.

Much of the ill health in developing countries is largely due to lack of safe drinking water. The WHO is of the view that one in every three people in the world lacking clean water is an Indian. (Sharma, 2001)

Of the total amount of about 1500 million sq.km. of water in the hydrosphere about 95% of it is sea water, 4% is frozen as a snow and only 1% is available for human uses. This meager 1% of the water is not available at a place confined, in groundwater, rivers, soil profile, atmosphere and biological system. Out of these, groundwater accounts for 99% of the available water (Dooge, 1973).

Groundwater, rivers, seas, lakes, ponds and sewage are finding it more and more difficult to escape from pollution. Many rivers of the world receive heavy flux of sewage,

Principal
Khattinger Arts, Comm. & Science College
Khatulabad, Nepal



Recent Studies
On
CLIMATE CHANGE

Dr. Rafiullah M. Khan
Dr. Syed Yousuf Hussain

[Signature]
PRINCIPAL
Kohinoor Arts Commerce & Science Coll.
Khulabed Aurangabad

Recent Studies on Climate Change

Dr. Rafiullah M. Khan
Dr. Syed Yousuf Hussain



❖ Publisher :

Harshwardhan Publication Pvt.Ltd.
Limbaganesh, Dist. Beed (Maharashtra)
Pin-431126, vidyawarta@gmail.com

❖ Printed by :

Harshwardhan Publication Pvt.Ltd.
Limbaganesh, Dist. Beed, Pin-431126
www.vidyawarta.com

❖ Page design & Cover :

H.P. Office (Source by Google)

❖ Edition: Nov. 2021

ISBN 978-93-92584-41-1

❖ Price : 200/-

[Signature]
PRINCIPAL

Kohinoor Arts, Commerce & Science College
Khulabed Aurangabad



All Rights Reserved, No part of this publication may be reproduced, or transmitted, in any form or by any means, electronic mechanical, recording, scanning or otherwise, without the prior written permission of the copyright owner. Responsibility for the facts stated, opinions expressed. Conclusions reached and plagiarism, If any, in this volume is entirely that of the Author. The Publisher bears no responsibility for them. What so ever. Disputes, If any shall be decided by the court at Beed (Maharashtra, India)

IV -Water Pollution; Causes; Effects and Control - 71 - 100

Introduction: Main Sources of water, Demand for water; water pollution; physical and chemical pollution of water, Parameters of water pollution, Effects of water pollution water pollution due to industries, Effects of Metal water pollutants, Measures to control water Pollution; Rain water harvesting Aquifer recharge, Reusing the waste water, New irrigation methods, People's participation to control water pollution and enforcement of laws.

- Dr. Prashant U. Terker

V -Air Pollution: Causes, Effect and Solutions - 101 - 108

Introduction: Various Causes of Air pollution, Agricultural Activities, various chemical and synthetic products. Effects of Air Pollution- Respiratory and Heart Problems, Child Health Problems, Global Warming, Acid Rain, Eutrophication, Effect on Wildlife, Ozone Layer depletion. Solutions: Mass Transportation, Good Household Practices, Energy conservation, Reduce, Reuse and Recycle, Renewable Energy Resources, Use Energy-Efficient Devices, References.

- Dr. Syed Abdul Aziz

VI -Environmental Diseases - 109 - 127

Introduction: Adverse effect of UV, Pollution related Disease, Diseases through polluted air, Diseases through to polluted water, Diseases due to Other Biological agents of environment, References

- Dr. TahesinkhanD. Pathan

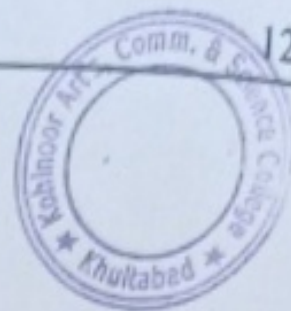
VII -Fluoride: An Acute Toxin -128 - 141

Introduction: Atmospheric pollution from industry emissions, Impact of fluoride on health, Dental fluorosis, Skeletal fluorosis, Non-skeletal fluorosis, Harm to plants, Harm to wild animals, Harm to domestic animals, References

- Dr. Syed Yousuf Hussain

PRINCIPAL

Kohinoor Arts Commerce & Science College
Siddabad Aurangabad



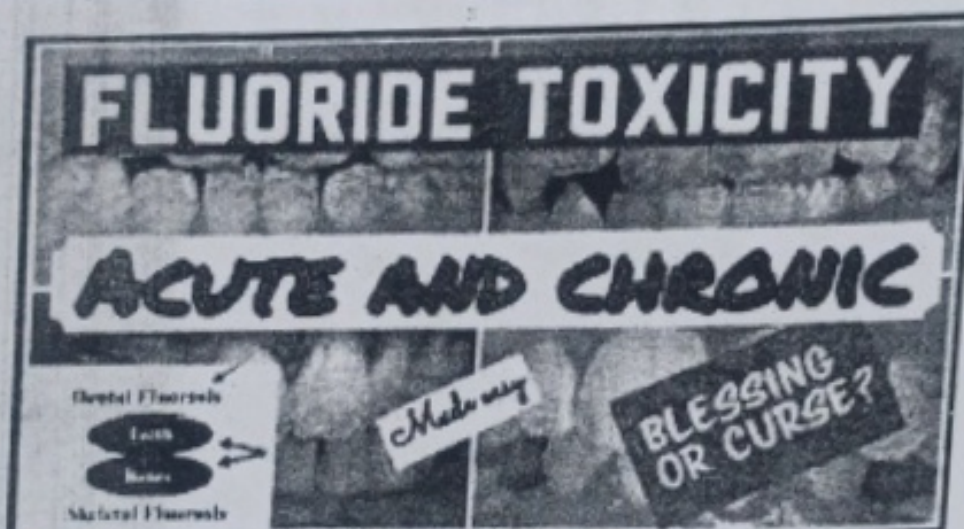
Fluoride: An Acute Toxin

Dr Syed Yousuf Hussain

Department of Chemistry

Kohinoor Arts, Commerce & Science College Khuldabad,

Dist. Aurangabad



Introduction

Comprising over 70% of the earth's surface, water is undoubtedly the most precious natural resource on our planet and the earth would be non-existent without water. Although recognize this fact we, the human beings disregard it and is polluting the water bodies day by day. In spite of huge water reserves it is interesting to note that only a small fraction is available for drinking purpose, agricultural use and industrial operation. It is estimated that 97% of total available water contaminated in the oceans is salty in character. Only the remaining 3% constitutes the world's fresh water supply. Again

PRINCIPAL

Kohinoor Arts Commerce & Science College
Khuldabad Aurangabad



Recent Studies *On* **CLIMATE CHANGE**

Dr. Rafiullah M. Khan
Dr. Syed Yousuf Hussain

[Signature]
PRINCIPAL

Kohimoor Arts Commerce & Science College
Khulabed Aurangzeb





Recent Studies on Climate Change

10

Neurotransmitters-Glutamate, Receptors Of Type Nmda, Gaba-Gaba Receptors, Glycine- Glycine Receptor, Aspartate; Conclusion; Acknowledgements, References.

- Prof. Ganesh B. Akat

XII -Microbes and Mind: A Review

- 198 - 203

- Dr. M. K. Rakhonde & Dr. A. L. Pawar

XIII -Theme of Climate Change and Eco-feminism in Margaret Atwood's Novel The Handmaid's Tale

- 204 - 216

Introduction: Climate Change, According to United Nations, NASA's definition of climate change. Eco-feminism, Margaret Atwood: Life and Works, Theme of Climate Change and Eco-feminism in The Handmaid's Tale; References.

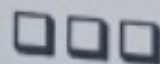
- Prof. Laikh M. Shaikh

XIV -Climate Change in context to Environmental Laws

- 217 - 125

Introduction: Laws before independence, Laws after independence- Ozone Depleting Substances (Regulations and control) rules, 2000; Conclusion, References.

- Prof. Sandip B. Awasarmol



PRINCIPAL

Kohinoor Arts Commerce & Science College,
Khuldabad Aurangabad



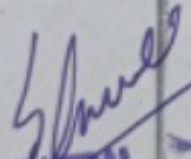
14

Climate Change in context to Environmental Laws

SandipB. Awasarmol
Assistant Professor & Head
Department of Public Administration
Kohinoor Arts, Commerce and Science College,
Khulatabad Dist. Aurangabad

Introduction:

Word "environment means the sum of all living and non-living things that surround an organism, or group of organisms. Environment includes all elements, factors, and conditions that have some impact on growth and development of certain organism. Environment includes both biotic and abiotic factors that have influence on observed organism. Abiotic factors such as light, temperature, water, atmospheric gases combine with biotic factors (all surrounding living species). Environment often changes after some time and therefore many organisms have ability to adapt to these changes. Industrialization, urbanization, explosion of population, over-exploitation of resources, disruption of natural ecological balances, destruction of a multitude of animal and plant species for economic reasons are the factors which have contributed to environmental deterioration. Environmental pollution is one of the most serious problems facing the earth today. Mahatma Gandhi has said that nature


PRINCIPAL

Kohinoor Arts, Commerce & Science College
Khulatabad Aurangabad



Recent Studies *On* **CLIMATE CHANGE**

Dr. Rafiullah M. Khan
Dr. Syed Yousuf Hussain

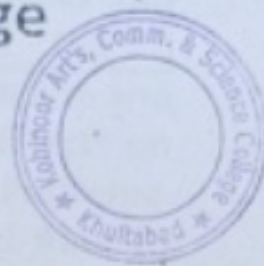
[Signature]
PRINCIPAL

Johinor Arts-Commerce & Science College
Khulnabad, Bangladesh



Recent Studies on Climate Change

Dr. Rafiullah M. Khan
Dr. Syed Yousuf Hussain



❖ Publisher :

Harshwardhan Publication Pvt.Ltd.
Limbaganesh, Dist. Beed (Maharashtra)
Pin-431126, vidyawarta@gmail.com

❖ Printed by :

Harshwardhan Publication Pvt.Ltd.
Limbaganesh, Dist. Beed, Pin-431126
www.vidyawarta.com

❖ Page design & Cover :

H.P. Office (Source by Google)

❖ Edition: Nov. 2021

ISBN 978-93-92584-41-1

❖ Price : 200/-


PRINCIPAL

Kohnoor Arts Commerce & Science College
Khulabed Aurangabad



All Rights Reserved, No part of this publication may be reproduced, or transmitted, in any form or by any means, electronic mechanical, recording, scanning or otherwise, without the prior written permission of the copyright owner. Responsibility for the facts stated, opinions expressed. Conclusions reached and plagiarism, If any, in this volume is entirely that of the Author. The Publisher bears no responsibility for them. What so ever. Disputes, If any shall be decided by the court at Beed (Maharashtra, India)

Recent Studies on Climate Change

VIII -Acid Rain: Chemical Reactions Involved, Causes and How to Reduce - 142 - 162

Introduction: Effects of Acid Rain-Effects on Fish and Other Aquatic Life, Effects on Plants and Trees, Effects on Structures, Effects on Human Body. Global Acid Rain Problems- Effects of Acid Rain in India, Effects of Acid Rain in China, Effects of Acid Rain in America and Canada, Effects of Acid Rain in Europe. Reduction Policies of SO₂ and NO_x, Recommendations, Reduce acid rain, References.

- Prof. Sherkhan Y. Pathan

IX -Temperature Perspective of Climate Change -163 - 171

Introduction: What role has the Sun played in climate change in recent decades? Climate is always changing. Why is climate change of concern now? Is the current level of atmospheric CO₂ concentration unprecedented in Earth's history? Did the slowdown of warming during the 2000s to early 2010s mean that climate change is no longer happening? Is the climate warming? If the world is warming, why are some winters and summers still very cold?

- Prof. MohdKhizar Sayed

X -Biotransformation of Benzonitrile - 172 - 182

Introduction: Xenobiotic compounds-pollutant, Methods to eliminate pollutant, Aromatic Nitriles-a pollutant, Benzonitrile properties, Toxicity and uses, Application of Benzonitrile, Benzoic acid and Benzamide, Biotransformation of benzonitrile, References.

- Dr. Vaishali H. Ajane

XI -An overview on how Biomolecule Plays Role of Neurotransmitters - 183 - 197

Introduction: Amino Acid Functions, Excitatory Neurotransmitters, Inhibitory Neurotransmitters, Amino Acid



[Signature]
PRINCIPAL

K. J. Somaiya Institute of Arts, Commerce & Science
Khultabad Aurangabad

10

Biotransformation of Benzonitrile

Dr. Ajane Vaishali Harish

Assistant Professor & Head

Department of Microbiology,

Kohinoor College, Khulltabad, Aurangabad (M.S.)

Introduction:

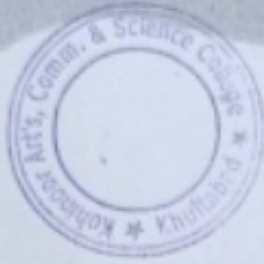
Biodegradation is important for natural and industrial cycling of environmental chemicals. Biodegradation of organic compound in nature derives from the collective metabolism of many microorganisms. Several nitriles have been found in different plants and microorganism. Despite the widespread use of herbicides containing nitrile group comparatively little is known about the microbial metabolism of nitriles and in particular the mechanism of cleavage of the cyanide bond by microorganisms. Microorganism as a biocatalyst has an important application in industry for transformation of waste nitrile to less toxic amides or carboxylic acids. Dihalogenated benzonitrile are active compounds in a number of herbicides and poses to have a deleterious health effect. Enzyme that catalyzes the synthesis of carboxylic acid from nitriles became popular tools in organic chemistry. Many plants and microorganisms produce cyanide and it is removed from the environment by microbial activity. Microorganisms utilized nitriles specially benzonitrile as a sole source of carbon and nitrogen. Microbial nitrile hydratase and amidase or nitrilases are used for biotransformation of aliphatic as well as aromatic nitriles.

Pollution may affect the soil, rivers, seas, or the atmosphere. There are two main classes of pollutants: those that are biodegradable (e.g. sewage) i.e. can be rendered harmless by natural processes and need therefore cause no permanent harm if adequately dispersed or treated; and those that are non biodegradable (e.g. heavy metals such as lead) in that are no biodegradable (e.g. heavy metals such as lead) in industrial effluents and DDT and other chlorinated hydrocarbons used as pesticides, which eventually accumulate in the environment and may be concentrated in food chains. Other forms of pollution in the environment include noise (e.g. from jet aircraft, traffic, and industrial processes) and thermal pollution (e.g. the release of excessive waste heat into lakes or rivers causing harm to wildlife). Recent pollution problems include the disposal of radioactive waste, acid rain, photochemical smog, increasing levels of human waste, high levels of carbon dioxide and other greenhouse gases in the atmosphere (see greenhouse effect), damage to the ozone layer by nitrogen oxides, chlorofluorocarbons (CFCs), and halons; and pollution of inland waters by agricultural fertilizers and sewage effluent, causing eutrophication.

Attempts to contain or prevent pollution include strict regulations concerning factory emissions, the use of smokeless fuels, the banning of certain pesticides, the increasing use of lead-free petrol, restrictions on the use of chlorofluorocarbons, and the introduction, in some countries, of catalytic converters to cut pollutants in car exhausts. In developing countries, industrial production often occurs in smaller units, such as backyard smelters. Pollution control is a term used in environmental management.

It means the control of emissions and effluents into air, water or soil. Without pollution control, the waste products from consumption, heating, agriculture, mining, manufacturing, transportation and other human activities,

Dr. Ajane Vaishali Harish
Assistant Professor & Head
Department of Microbiology,
Kohinoor College, Khulltabad, Aurangabad (M.S.)



NITYA
PUBLICATIONS

THEORY OF MECHANICS

Prof. Mohmed Zafar Saber
Dr. Shaikh Mohammed
Sirajuddin Mohammed
Salimuddin

PRINCIPAL

Khatimul Uloom & Science College
Khairabad Aurangabad

Signature



INDEX

UNIT - I FORCES ACTING AT A POINT

- 1.1 Parallelogram law of forces (Fundamental theorem in statics)
- 1.2 Triangle of forces
- 1.3 Lami's Theorem
- 1.4 Parallel forces:
- 1.5 Moment of a force (or) Turning effect of a force
- 1.6 Varignon's Theorem of Moments
- 1.7 Equilibrium of three forces acting on a Rigid Body.

UNIT - II FRICTION

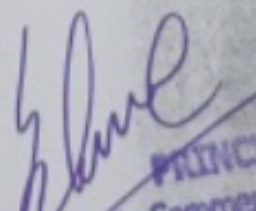
- 2.1 Introduction Friction
- 2.2 Laws of Friction
- 2.3 Equilibrium of a particle on a rough inclined plane.
- 2.4 Equilibrium of a body on a rough inclined plane under a force parallel to the plane.
- 2.5 Equilibrium of a body on a rough inclined plane under any force.
- 2.6 Equilibrium of Strings
- 2.7 Equation of the common centenary.
- 2.8 Tension at any point:
- 2.9 Geometrical Properties of the Common centenary;
- 2.10 Suspension Bridges:

UNIT - III DYNAMICS

- 3.1 Projectiles.
- 3.2 Equation of the path of the projectile
- 3.3 Characteristics of the motion of the projectile
- 3.4 Range on an inclined Plane:
- 3.5 Maximum range on the inclined plane, given u the velocity of projection and β the inclination of the plane:
- 3.6 Impulsive Forces
- 3.7 Collision of Elastic Bodies
- 3.8 Fundamental Laws of Impact
- 3.9 Impact of a smooth sphere on a fixed smooth plane:
- 3.10 Direct impact of two smooth spheres
- 3.11 Oblique impact of two smooth spheres:

UNIT- IV SIMPLE HARMONIC MOTION

- 4.1 Simple Harmonic Motion in a straight line
- 4.2 Geometrical Representation of S.H.M
- 4.3 Composition of two simple Harmonic Motions of the same period and in the same straight line
- 4.4 Composition of two simple Harmonic motions of the same period in two perpendicular directions
- 4.5 Motion of a particle suspended by a spiral spring
- 4.6 Simple Harmonic Motion On a Curve


PRINCIPAL
Kohinoor Arts Commerce & Science College
Khulabad Aurangabad



UNIT I

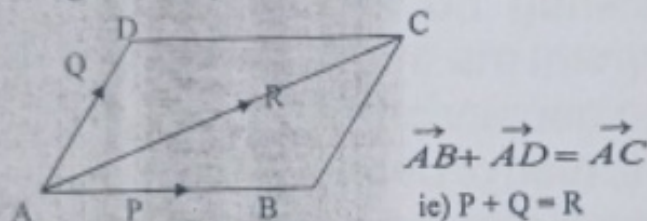
Forces Acting at a Point

Introduction

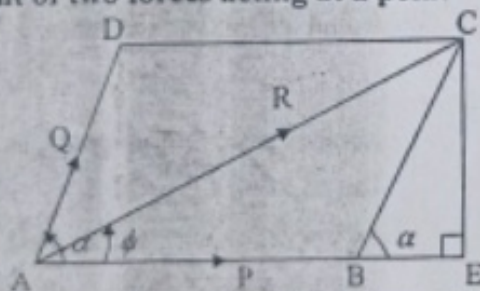
Forces are represented by straight lines with magnitude and direction. Forces acting on a rigid body may be represented by straight lines with magnitude and direction passing through the same point and we say the forces are acting at a point. If $P_1, P_2, P_3, \dots$ are the forces acting on a rigid body it is easy to find a single force whose effect is same as the combined effect of $P_1, P_2, P_3, \dots$. Then the single force is called the resultant. $P_1, P_2, P_3, \dots$ are called the components of the resultant. In this section we study some theorems and methods to find the resultant of two or more forces acting at a point.

1.1 Parallelogram law of forces (Fundamental theorem in statics)

If two forces acting at a point be represented in magnitude and direction by the sides of a parallelogram drawn from the point, their resultant is represented both in magnitude and direction by the diagonal of the parallelogram drawn through that point.



The resultant of two forces acting at a point



Let the two forces P and Q acting at A be represented by AB and AD . Let α be the angle between them.

i.e. $\angle BAD = \alpha$

Complete the parallelogram $ABCD$.

Then the diagonal AC will represent the resultant.

[Signature]
PRINCIPAL
Kohinoor Arts Commerce & Science College
Khulabad Aurangabad

About the Author

Mohmed Zafar Saber received his B.Sc., B.Ed., M.Sc., M.Phil. & Ph.D. (Pursuing) from Dr. Babasaheb Ambedkar Marathwada University, Aurangabad, Maharashtra. He is working as assistant Professor & Head, Department of Mathematics, Kohinoor Arts, Commerce & Science College, Khuldabad, Dist – Aurangabad (MS). He has 13 years of teaching experience at UG Level. He has published 13 research papers in national and international Journals; his area of specialization is Applied Mathematics & Integral Transform etc.

Shaikh Mohammed Sirajuddin Mohammed Salimuddin received his B.Sc., B.Ed., M.Sc., and M.Phil. & Ph.D. degree from Dr. Babasaheb Ambedkar Marathwada University, Aurangabad (MS). He is working as assistant of Professor, Department of Mathematics, Kohinoor Arts, Commerce & Science College Khuldabad .Dist –Aurangabad (MS). He has 05 years of teaching experience at UG and PG Level .He has published 10 research papers in national and International Journals. His area of Specialization is Mechanics and Fixed Point theory and its application etc.

This reference Books is designed as a text for a first course in Mechanics, the author has given as elementary through systematic introduction to the subject. The emphasis throughout is on general properties of equations and its solutions. There are many examples which help the students to develop the techniques of solving equations. The problems in text are intended to help sharpen the students' understanding of the subject. The only Prerequisite to understand this text is the knowledge of Mechanics.

Principal
Kohinoor Arts Commerce & Science College
Khuldabad Aurangabad

NITYA
PUBLICATIONS

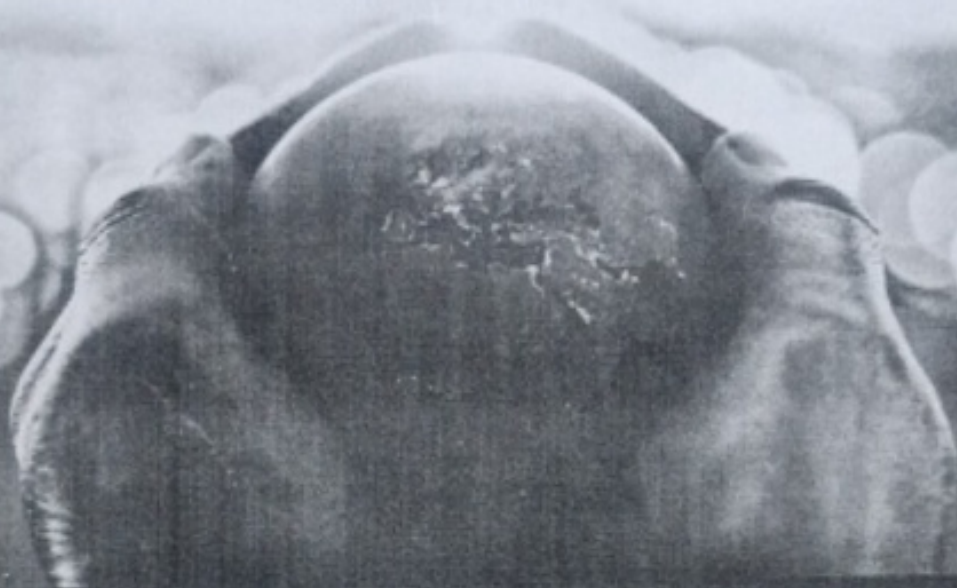
Copyright © Dr. Shaikh Mohammed Sirajuddin Mohammed Salimuddin

Nitya Publications, Bhopal MP India
Web: www.nityapublications.com
Email: info@nityapublications.com
Mob.: +91-9009291840

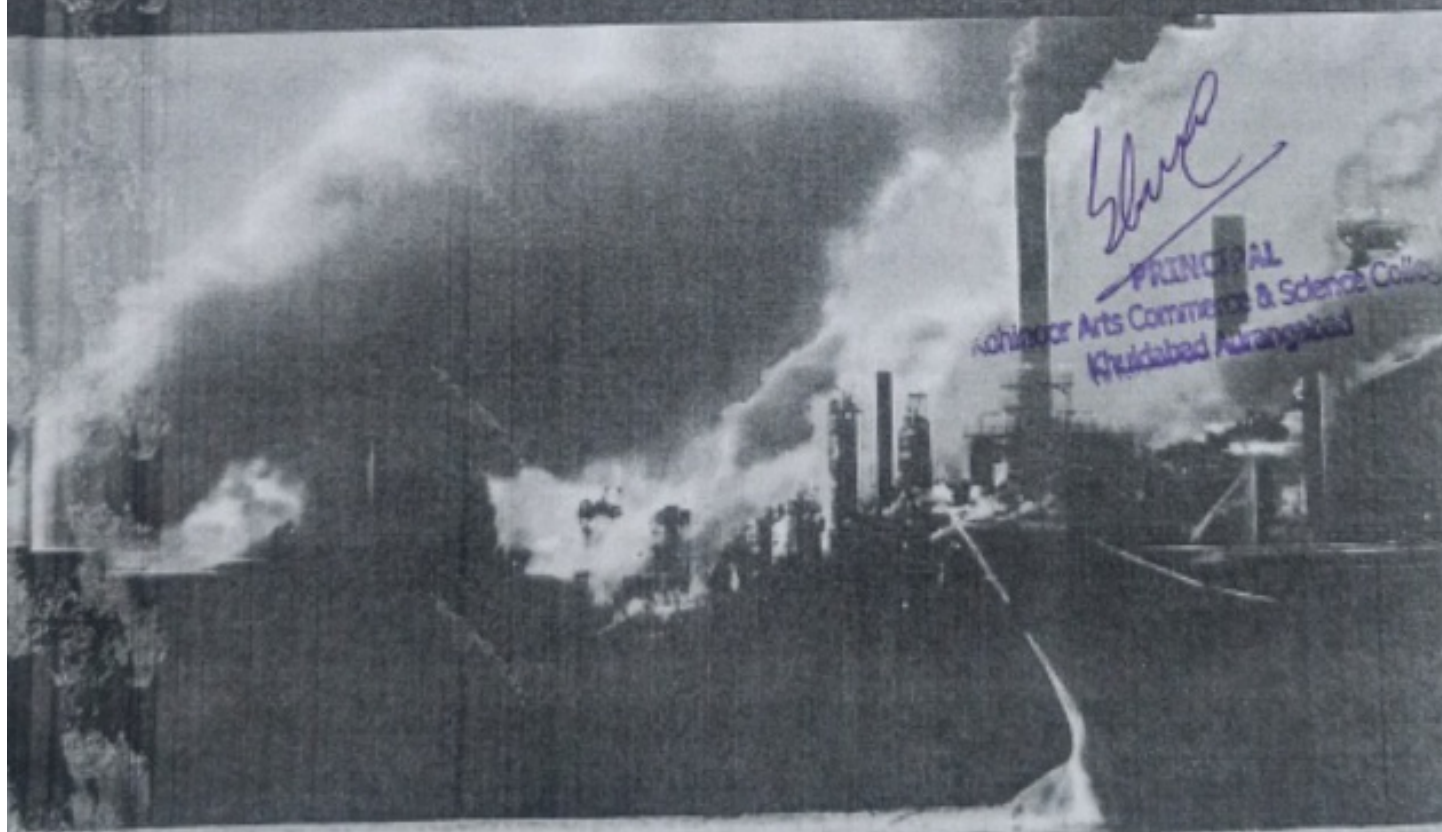
MRP. Rs.400.00



GLOBAL WARMING AND PLANET



Dr. Avinash B. Ade • Dr. Sumia Fatima



Sumia Fatima
PRINCIPAL
Kohinoor Arts Commerce & Science College
Khulthabad Adarangabad



Published by:

DISCOVERY PUBLISHING HOUSE PVT. LTD.

4383/4B, Ansari Road, Darya Ganj

New Delhi-110 002 (India)

Phone : +91-11-23279245, 43596065, 23253475

E-mail : discoverybooksindia@gmail.com

discoverypublishinghouse@gmail.com

namitwasan9@gmail.com

web : www.discoverypublishinggroup.com

First Edition: 2022

ISBN: 978-93-88854-93-1

Global Warming and Planet

© Editors

All rights reserved. No part of this publication should be reproduced, stored in a retrieval system, or transmitted in any form or by any means: electronic, mechanical, photocopying, recording or otherwise, without the prior written permission of the author and the publisher.

This book has been published in good faith that the material provided by authors/editors is original. Every effort is made to ensure accuracy of material, but the publisher and printer will not be held responsible for any inadvertent error(s). In case of any dispute, all legal matters are to be settled under Delhi jurisdiction only.

Printed at:

Infinity Imaging Systems

Delhi

PRINCIPAL

Kothinor Arts Commerce & Science College
Khudabad Aurangabad



Pages: 89-95

Global Warming and Planet

Editors: Dr. Avinash B. Ade and Dr. Sumia Fatima

ISBN: 978-93-88854-93-1

Published by: Discovery Publishing House Pvt. Ltd., New Delhi (India)



Deforestation Causes and its Impact

Tahesinkhan Daudkhan Pathan

ABSTRACT

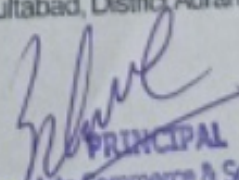
Deforestation is one of the most serious environmental concerned issues that created due to expansion of agriculture land, cattle grazing, to obtain timber & fire wood and infrastructure expansion etc. Forests acts as lungs of our planet which help our environment by purification air, filtration of water, prevention of soil erosion and regulation of regular water cycle. As a result of deforestation dangerous issues like global climate change, disturbed water cycle, soil erosion, global warming and loss of biodiversity etc. are going to emerge. There is an urgent need to focus on the preventive measures in order to save the forests from deforestation in the near future so if today we awake & protect our forest by taking some preventive steps, definitely it will be beneficial for our future generations.

Keywords: Deforestation, agriculture expansion, loss of habitat, evapotranspiration.

Introduction

Deforestation is the purposeful clearing of forested land in order to facilitate human activities such as agriculture, grazing of cattle, obtaining fire wood, getting raw material for manufacturing purposes and road construction etc. Deforestation represents one of the largest current issues in global land use that the world is facing. In Deforestation there is permanent destruction of forests. The land is then often converted into farms, plantation, roads, housing and other uses. It is a serious environmental concern since it

Department of Zoology, Kohinoor Arts Commerce and Science College Khultabad, District Aurangabad (MS)
e-mail: tahesinkhan222@gmail.com


PRINCIPAL
Kohinoor Arts Commerce & Science College
Khultabad Aurangabad



Recent Studies *On* **CLIMATE CHANGE**

Dr. Rafiullah M. Khan
Dr. Syed Yousuf Hussain

[Signature]
PRINCIPAL
Kahinor Arts, Comm. & Science College
Kandahar, Afghanistan



We are thankful to Dr. Qamarunnisa Begum, Principal, Kohinoor Arts, Commerce & Science College Khuldaabad, District Aurangabad for their encouragement for completing this book in time.

We hope that this book will be helpful to all those students, researchers and environment loving persons for recent updates of the climate, its changes and its impacts on the living beings and environment. We will try to edit next edition of the book with new articles and chapters with the then conditions of the climate and environment.

Dr. Rafiullah M. Khan

Dr. Syed Yousuf Hussain

Contents

I - Climate change: A global issue -11 - 27

Introduction: Weather. Climate, Climate Change, Causes of climate change-Carbon dioxide (CO₂), Methane (CH₄), Water vapor (H₂O), Nitrous oxide (N₂O), Chlorofluorocarbons (CFCs), Effects of Climate change, Prevention and control-At individual level, At international level, Instances illustrating impact of climate change on environment, References.

- Prof. Mohammad Hanif

II - Ecosystem and its Restoration 28 - 48

Introduction: Components of an ecosystem, Food Web and Food Chain and Energy flow, Nutrient cycle, Types of Ecosystem, Stability and dynamics of ecosystems, Ecosystem degradation and decline, Need of Ecosystem Restoration and Sustainable Development, References.

- Dr. Tahesinkhan D. Pathan

III - Biodiversity and Conservation 49 - 70

Introduction: Definition, What is biodiversity? Genetic diversity, Species diversity, Ecosystem diversity, Functional Diversity and Evolution of biodiversity. Biogeographic Classification of India-India's Biogeographic Zones; Values of biodiversity- Environmental Value; Social Value, India as a Mega Diversity Nation- Threats to Biodiversity; Endangered and Endemic Species of India; Conservation of Biodiversity- In-situ Conservation, Ex-situ Conservation- Strategies for Biodiversity Conservation.

- Dr. Rafiullah M. Khan

[Signature]
Rafiullah M. Khan
Arts, Commerce & Science College
Khuldaabad Aurangabad

02

Ecosystem and its Restoration

Dr. Tahesinkhan D. Pathan
Head and Research Guide,
Department of Zoology,
Kohinoor Arts Commerce and Science College
Khuldabad, Dist- Aurangabad.

Introduction

Ecosystem is a complex relationship between living organisms and its nonliving components of surroundings for example sun, climate, rocks, minerals, air, water, soil etc. In other words ecosystem is a structural and functional unit of nature and it comprises abiotic and biotic components. Ecosystems are the foundation of 'Biosphere' and maintain the natural balance of the earth.

Components of the Ecosystem

The components of an ecosystem are divided into biotic components and abiotic components. **Biotic components**, that include all the living components whereas **abiotic components** include all nonliving components such as minerals, climate, soil, water, sunlight etc. Both of these components work together for the flow of energy in the ecosystem and the nutrient cycle in the ecosystem.

We know Sun is the ultimate source of energy in all the ecosystems. The autotrophs which include all green plants absorb this radiation energy and convert into chemical energy by process photosynthesis in which they convert CO_2 and H_2O into simple carbohydrates. The autotrophs store energy in these carbohydrates, which they then use to produce more complex and organic products like lipids, proteins, and starches that help the organism to survive. Thus these autotrophs are the **producers** of the ecosystem. On other hand heterotrophs feeds on the products produced by the plants including leaves, fruits and other plant products. Thus organic compounds produced by autotrophs help in the survival of the heterotrophic organisms and heterotrophs are the **consumers** of the ecosystem since they are incapable of making their own food as they can't perform the process of photosynthesis. All organisms like bacteria, fungi or animals are heterotrophs. The biotic and abiotic components are linked together through nutrient cycles and energy flows.

energy by process photosynthesis in which they convert CO_2 and H_2O into simple carbohydrates. The autotrophs store energy in these carbohydrates, which they then use to produce more complex and organic products like lipids, proteins, and starches that help the organism to survive. Thus these autotrophs are the **producers** of the ecosystem. On other hand heterotrophs feeds on the products produced by the plants including leaves, fruits and other plant products. Thus organic compounds produced by autotrophs help in the survival of the heterotrophic organisms and heterotrophs are the **consumers** of the ecosystem since they are incapable of making their own food as they can't perform the process of photosynthesis. All organisms like bacteria, fungi or animals are heterotrophs. The biotic and abiotic components are linked together through nutrient cycles and energy flows.

Food Web and Food Chain and Energy flow

A food web is the natural interconnection of food chains and a graphical representation of what-eats-what in an ecological community. Alternative term for food web is consumer resource system. Roughly speaking, these levels are divided into producers i.e. first trophic level, consumers i.e. second, third, and fourth trophic levels respectively, and the decomposers. Producers comprise the first level of every food chain. A food chain is a linear sequence of organisms through which nutrients and energy pass as one organism eats another. See fig 1.1 showing typical food chain, starting from the bottom the producers and moving upward.

At the base of the food chain lie the **primary producers**. The primary producers are autotrophs and are most often photosynthetic organisms such as plants, algae, or cyanobacteria. The organisms that eat the primary producers are called **primary consumers**. Primary consumers are usually herbivores, plant-eaters, though they may be algae eaters or bacteria eaters. The organisms that eat the primary

PRINCIPAL
Kohinoor Arts Commerce & Science College
Khuldabad

Recent Studies on Climate Change

Dr. Rafiullah M. Khan
Dr. Syed Yousuf Hussain



❖ Publisher :

Harshwardhan Publication Pvt.Ltd.
Limbaganesh, Dist. Beed (Maharashtra)
Pin-431126, vidyawarta@gmail.com

❖ Printed by :

Harshwardhan Publication Pvt.Ltd.
Limbaganesh, Dist. Beed, Pin-431126
www.vidyawarta.com

❖ Page design & Cover :

H.P. Office (Source by Google)

❖ Edition: Nov. 2021

ISBN 978-93-92584-41-1

❖ Price : 200/-

Signature
Pratima A.

Junior Arts Commerce & Science
Khulabud Aurangabad



All Rights Reserved, No part of this publication may be reproduced, or transmitted, in any form or by any means, electronic mechanical, recording, scanning or otherwise, without the prior written permission of the copyright owner. Responsibility for the facts stated, opinions expressed. Conclusions reached and plagiarism, If any, in this volume is entirely that of the Author. The Publisher bears no responsibility for them. What so ever. Disputes, If any shall be decided by the court at Beed (Maharashtra, India)



Recent Studies *On* **CLIMATE CHANGE**

Dr. Rafiullah M. Khan
Dr. Syed Yousuf Hussain

[Signature]
PRINCIPAL

Kohinoor Arts Commerce & Science College
Khulda, Khulda, Khulda

Recent Studies on Climate Change



Dr. Rafiullah M. Khan

Dr. Syed Yousuf Hussain

❖ Publisher :

Harshwardhan Publication Pvt.Ltd.
Limbaganesh, Dist. Beed (Maharashtra)
Pin-431126, vidyawarta@gmail.com

❖ Printed by :

Harshwardhan Publication Pvt.Ltd.
Limbaganesh, Dist. Beed, Pin-431126
www.vidyawarta.com

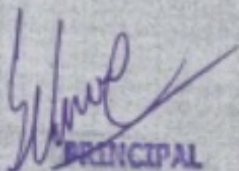
❖ Page design & Cover :

H.P. Office (Source by Google)

❖ Edition: Nov. 2021

ISBN 978-93-92584-41-1

❖ Price : 200/ -


PRINCIPAL
Kohinor Arts Commerce & Science College
Khulabad Aurangabad



All Rights Reserved, No part of this publication may be reproduced, or transmitted, in any form or by any means, electronic mechanical, recording, scanning or otherwise, without the prior written permission of the copyright owner. Responsibility for the facts stated, opinions expressed. Conclusions reached and plagiarism, If any, in this volume is entirely that of the Author. The Publisher bears no responsibility for them. What so ever. Disputes, If any shall be decided by the court at Beed (Maharashtra, India)

2021-22

Recent Studies on Climate Change

8

IV -Water Pollution; Causes; Effects and Control - 71 - 100

Introduction: Main Sources of water, Demand for water; water pollution; physical and chemical pollution of water; Parameters of water pollution, Effects of water pollution water pollution due to industries, Effects of Metal water pollutants, Measures to control water Pollution; Rain water harvesting Aquifer recharge, Reusing the waste water, New irrigation methods, People's participation to control water pollution and enforcement of laws.

- Dr. Prashant U. Terker

V -Air Pollution: Causes, Effect and Solutions - 101 - 108

Introduction: Various Causes of Air pollution, Agricultural Activities, various chemical and synthetic products, Effects of Air Pollution- Respiratory and Heart Problems, Child Health Problems, Global Warming, Acid Rain, Eutrophication, Effect on Wildlife, Ozone Layer depletion, Solutions: Mass Transportation, Good Household Practices, Energy conservation, Reduce, Reuse and Recycle, Renewable Energy Resources, Use Energy-Efficient Devices, References.

- Dr. Syed Abdul Aziz

VI -Environmental Diseases - 109 - 127

Introduction: Adverse effect of UV, Pollution related Disease, Diseases through polluted air, Diseases through polluted water, Diseases due to Other Biological agents of environment, References

- Dr. Tahesinkhand, Pathan

VII -Fluoride: An Acute Toxin -128 - 141

Introduction: Atmospheric pollution from industry emissions, Impact of fluoride on health, Dental fluorosis, Skeletal fluorosis, Non-skeletal fluorosis, Harm to plants, Harm to wild animals, Harm to domestic animals, References

- Dr. Syed Yousuf Hussain

Recent Studies on Climate Change

9

VIII -Acid Rain: Chemical Reactions Involved, Causes and How to Reduce - 142 - 162

Introduction: Effects of Acid Rain-Effects on Fish and Other Aquatic Life, Effects on Plants and Trees, Effects on Structures, Effects on Human Body, Global Acid Rain Problems- Effects of Acid Rain in India, Effects of Acid Rain in China, Effects of Acid Rain in America and Canada, Effects of Acid Rain in Europe, Reduction Policies of SO₂ and NO_x, Recommendations, Reduce acid rain, References.

- Prof. Sher Khan Y. Pathan

IX -Temperature Perspective of Climate Change -163 - 171

Introduction: What role has the Sun played in climate change in recent decades? Climate is always changing. Why is climate change of concern now? Is the current level of atmospheric CO₂ concentration unprecedented in Earth's history? Did the slowdown of warming during the 2000s to early 2010s mean that climate change is no longer happening? Is the climate warming? If the world is warming, why are some winters and summers still very cold?

- Prof. Mohd Khizar Sayed

X -Biotransformation of Benzonitrile - 172 - 182

Introduction: Xenobiotic compounds-pollutant, Methods to eliminate pollutant, Aromatic Nitriles-a pollutant, Benzonitrile properties, Toxicity and uses, Application of Benzonitrile, Benzoic acid and Benzamide, Biotransformation of benzonitrile, References.

- Dr. Vaishali H. Ajane

XI -An overview on how Biomolecule Plays Role of Neurotransmitters - 183 - 197

Introduction: Amino Acid Functions, Excitatory Neurotransmitters, Inhibitory Neurotransmitters, Amino Acid

Dr. Tahesinkhand, Pathan
Dr. Syed Yousuf Hussain
Dr. Prashant U. Terker
Dr. Syed Abdul Aziz
Dr. Vaishali H. Ajane
Dr. Mohd Khizar Sayed
Dr. Sher Khan Y. Pathan

6. Use Energy-Efficient Devices

CFL lights consume less electricity than their counterparts. They live longer, consume less electricity, lead to lower electricity bills, and also help you to reduce pollution by consuming less energy.

Several attempts are being made worldwide on personal, industrial, and governmental levels to curb the intensity at which air pollution is rising and regain a balance as far as the proportions of the foundation gases are concerned.

This is a direct attempt at slacking Global warming. We are seeing a series of innovations and experiments aimed at creating alternate and unconventional options to reduce pollutants. Air pollution is one of the larger mirrors of man's follies, and a challenge we need to overcome to see a better tomorrow.

References

- <https://www.aqi.in>
- <https://www.conserve-energy-future.com/causes-effects-solutions-of-air-pollution.php>
- Health Impact of Air Pollution
- Air Pollution by UNEP
- Air Pollution and Health



06

Environmental Diseases

Dr. Tahesinkhan D.Pathan
Head and Research Guide,
Department of Zoology,
Kohinoor Arts commerce and Science College Khuldabad,
Dist- Aurangabad.

Introduction

A disease can be defined as it is a particular abnormal condition that negatively affects the structure or function of any part of a living organism including human being. However **environmental diseases** are those diseases which can be directly attributed to environmental factors for Example UV rays from Sunlight, toxic chemicals in the environment, toxins from biological agents, and toxins from any other source etc.

Adverse effect of UV

Sunlight is responsible for the production of vitamin-D in our bodies, but unprotected and overexposure to this radiation of the Sun's ultraviolet (UV) rays. Ultraviolet (UV) light, although invisible to the human eye, is the component of sunlight. It not only cause damage to our skin, eyes, and immune system but also responsible to cause cancer.

UV light is classified into three types, depending on its wavelength these are Ultraviolet A (UVA), Ultraviolet B (UVB) and Ultraviolet C (UVC) Out of which UVC is the shortest and not long enough to reach our skin but are mostly absorbed by the atmospheric ozone. UVB rays come

EMERGING TRENDS IN FINANCE, MARKETING AND HUMAN RESOURCE MANAGEMENT



Academic Province Publication

Editors

Er. I. Yasar Shariff
Dr. S. Thowseaf

A handwritten signature in black ink, likely of the Principal.

PRINCIPAL

Kohinoor Arts Commerce & Science College
Khushabad Aurangabad

First Edition
Volume-1



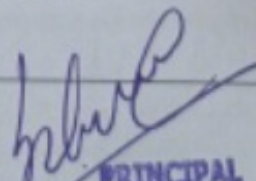
ACADEMIC PROVINCE

PRINCIPAL
Johinoor Arts Commerce & Science College,
Khulabad Aurangabad

Book Title : Emerging Trends In Finance, Marketing And Human Resource Management
Publisher Name : Academic Province
Address of Publication: No. 47 Hasthinapuram Main Road, Chrompet, Chennai - 600044
Editor : Er I. Yasar Shariff & Dr S. Thowseaf
Edition No. : 1
ISBN : 978-81-948555-2-1

Table of Content

S.No.	Title	Authors	Page No.
1	Advertising-a 360° view	Dr. A . Gayathri Ms. D. Saraswathi	1
2	Risk management in commercial banks - a case study of public and private sector banks	Dr. G. Sivakumar	6
3	Social media marketing as a marketing tool for home based women entrepreneurs post the lockdown: a survey	Dr. Saraswathi Moorthy Ms. Purvy Karia	14
4	Digital customer	Dr Kiran Menghani	21
5	Emerging issues in finance	P. A. L. N. S. Kalyani	27
6	A framework for new product launch through E. Marketing	Dr. Sumitha. K	32
7	Capital structure	Dr. Hajeema Rabiath Beevis Dr. Kanchana K	38
8	Compensation system: influence on employee retention	Asi Vasudeva Reddy	46
9	Understanding online shopping behaviour of Kolkata's shoppers	Rana Ghosh	52
10	Impact of COVID-19 on consumer buying behavior towards digital shopping	Anjali Shikhapatheja	64
11	Customer relationship management concepts, components and recent trends	Dr. S. Shantha Bai Dr. Gethsi beulah	68
12	Initiatives of Indian banks towards green banking-awareness and future prospects	Dr. Anupam Karmakar	74
13	Islamic banking and finance	Serene Liza Thomas	90
14	Effectiveness of E-recruitment in Morden organization development	Dr. Kotgire Manisha Arvind	94
15	Buying behavior and psychology of rural consumer with special reference to led T.V., washing machine and refrigerator	Asst. Prof. Dawane Sudarshan Kishanrao	99
16	An empirical study on the growth of over the top (OTT) media platform in India	Sujith. T.S Dr. M. Sumathy	104
17	Emerging trends in finance, marketing & human resource management	Dr. V. Anuraadha Mr. P. Kumaravel	110
18	Emotional intelligence in the workplace – an organizational perspective	F. Beulah	116


PRINCIPAL
 Kohinor Arts Commerce & Science College
 Khuldabad Aurangabad

Dr. Kotgire Manisha Arvind
Asst. Prof. & Head
Department of Commerce
Kohinoor Arts, Commerce
& Science College,
Khulatabad Dist.,
Aurangabad (MS)

ISBN

978-81-948555-2-1

BOOK TITLED

*Emerging Trends In
Finance, Marketing
And Human Resource
Management*



Academic Province
Publication

CHAPTER-14: Effectiveness Of E- Recruitment In Modern Organization Development

Abstract

In a rapidly changing global economy, the only important value of an industry is its experience, skills, innovation and insight into its manpower resources. Current competitive organizations need to attract and retain the best and best manpower to stay competitive in the market. This paper identifies Internet recruitment methods from related materials, and describes how their advantage of online recruitment can affect an organization's recruitment decision. The most important source of competitive advantage today is based on human resource efforts to attract and retain talented individuals. From the recruitment process referred to as e-recruitment, the Internet has helped to attract potential candidates to an organization. The practice of issuing vacancies and applying for jobs through websites has gradually increased. The purpose of this study is to broaden the research on online recruitment methods for the overall development of the organization by focusing on e-recruitment methods and trends in India, in the direction of how e-recruitment methods are being used and what benefits are being experienced. By organizations that use these methods.

Keywords: E-Recruitment, Technology, Company Development.

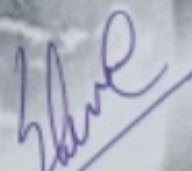
Introduction

Recruitment as Manpower Management Function is one of the most effective activities seriously on the functionality and development of Institution. E-recruitment is a process In staff recruitment, using electronic resources especially the internet. E-recruitment, also known Online recruitment, inside the material as the Internet Recruitment or cyber recruitment is practice Advertising job vacancies online and formal Getting information about jobs online. Companies and recruitment agents have moved Most of their recruitment process is online Improve the pace at which job candidates can be directly matched with vacancies. Using a data base Technology and online job advertising panels Search engines, employers can now fill post As many parts as possible before. The reason of this study is to widen the research On recruitment by evaluating resource effectiveness Based on new pre-rental measures Criteria with a specific focus on e-recruitment. This Will provide an overview of current studies in The rationale behind the research Recognized gaps in the literature. Over the years The importance of effective human resources There are management methods for organizations The growing amount of research shed light Published in the media, both scholarly and Professional-focused journals and magazines. A keys a component of human resource management Recruiting staff, as it creates jobs Human capital builds that foundation Companies. The future of the company is success Primarily based on human success Resource effort, which develops through Quality new

Signature
Kohinoor Arts, Commerce & Science College
Khulatabad Aurangabad

Recent Studies
On
CLIMATE CHANGE

Dr. Rafiullah M. Khan
Dr. Syed Yousuf Hussain


PRINCIPAL

Shinoor Arts Commerce & Science College
Khuldabad Aurangabad

Recent Studies on Climate Change



Dr. Rafiullah M. Khan
Dr. Syed Yousuf Hussain

❖ Publisher :

Harshwardhan Publication Pvt.Ltd.
Limbaganesh, Dist. Beed (Maharashtra)
Pin-431126, vidyawarta@gmail.com

❖ Printed by :

Harshwardhan Publication Pvt.Ltd.
Limbaganesh, Dist. Beed, Pin-431126
www.vidyawarta.com

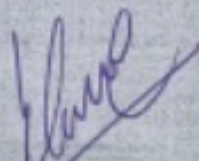
❖ Page design & Cover :

H.P. Office (Source by Google)

❖ Edition: Nov. 2021

ISBN 978-93-92584-41-1

❖ Price : 200/-


PRINCIPAL

Khairat Arts Commerce & Science College
Khairat Aurangabad



All Rights Reserved, No part of this publication may be reproduced, or transmitted, in any form or by any means, electronic mechanical, recording, scanning or otherwise, without the prior written permission of the copyright owner. Responsibility for the facts stated, opinions expressed. Conclusions reached and plagiarism, If any, in this volume is entirely that of the Author. The Publisher bears no responsibility for them. What so ever. Disputes, If any shall be decided by the court at Beed (Maharashtra, India)



Recent Studies on Climate Change

10

Neurotransmitters-Glutamate, Receptors Of Type Nmda, Gaba-Gaba Receptors, Glycine- Glycine Receptor, Aspartate; Conclusion; Acknowledgements, References.

- Prof. Ganesh B. Akat

XII -Microbes and Mind: A Review

- 198 - 203

- Dr. M. K. Rakhonde & Dr. A. L. Pawar

XIII -Theme of Climate Change and Eco-feminism in Margaret Atwood's Novel The Handmaid's Tale

- 204 - 216

Introduction: Climate Change, According to United Nations, NASA's definition of climate change. Eco-feminism, Margaret Atwood: Life and Works, Theme of Climate Change and Eco-feminism in The Handmaid's Tale; References.

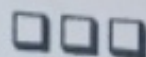
- Prof. Laikh M. Shaikh

XIV -Climate Change in context to Environmental Laws

- 217 - 125

Introduction: Laws before independence, Laws after independence- Ozone Depleting Substances (Regulations and control) rules, 2000; Conclusion, References.

- Prof. Sandip B. Awasarmol



PRINCIPAL
Kolhapur Arts Commerce & Science College
Khuldabad Aurangabad

13

Theme of Climate Change and Eco-feminism in Margaret Atwood's Novel the Handmaid's Tale

Shaikh Lalith Shaikh Mahemood

Assistant Professor

Dept. of English, Kohinor Arts, Commerce, and Science
College, Khudabad, Dist. Aurangabad.

Introduction

Nature does not need us to rule over it, but runs itself very well and better without humans. We are the parasites on the food chain of life, consuming more and more, and putting too little back to restore and maintain the life system that support us. This chapter throws a light on a short biography of Margaret Atwood. The author is influenced by the green fuse and eco-feminism perceptions. Her novel not only providing us great pleasure in evoking all our five senses, but also induces our spirit to safeguard the nature of our forthcoming generations. This chapter attempts to explain Margaret Atwood's many novels in terms of Eco-feminism. Women and Nature are always identified with each other and wherever the role of women and nature is neglected, the sterility of that society begins. By taking the females as the leading characters and environmental crisis in its background Atwood expertly combines the dual oppression of nature and women.

Climate Change

Climate change is generally defined as a significant variation of average weather conditions—say, conditions becoming warmer, wetter, or drier—over several decades or more. It's the longer-term trend that differentiates climate change from natural weather variability.

Record floods, Raging storms, deadly heat, Climate change manifests itself in myriad ways and is experienced by every living being, although not equally. Throughout the world, the economically disadvantaged and people of color—those who have contributed the very least to the root causes of climate change—are the most likely to suffer from its worst impacts. Here are the basics on what causes climate change, how it's affecting the planet and its people, and what we can do about it.

According to United Nations

Climate change mentions to long-term transformations in temperatures and weather patterns. These shifts may be natural, such as through variations in the solar cycle. But since the 1800s, human activities have been the main driver of climate change, primarily due to burning fossil fuels like coal, oil and gas. Burning fossil fuels generates greenhouse gas emissions that act like a blanket wrapped around the Earth, trapping the sun's heat and raising temperatures. Examples of greenhouse gas emissions that are causing climate change include carbon dioxide and methane. These come from using gasoline for driving a car or coal for heating a building, for example. Clearing land and forests can also release carbon dioxide. Landfills for garbage are a major source of methane emissions. Energy, industry, transport, buildings, agriculture and land use are among the main emitters.

NASA's definition of climate change says it is

"A broad range of global phenomena created predominantly by burning fossil fuels, which add heat-trapping

Dr. Shaikh L.M 2021-22

GLOBAL WARMING AND PLANET



Dr. Avinash B. Ade • Dr. Sumia Fatima



Sumia Fatima
PRINCIPAL
Khinor Arts Commerce & Science Center
Khuldabad Aurangabad



Published by:

DISCOVERY PUBLISHING HOUSE PVT. LTD.

4383/4B, Ansari Road, Darya Ganj

New Delhi-110 002 (India)

Phone : +91-11-23279245, 43596065, 23253475

E-mail : discoverybooksindia@gmail.com

discoverypublishinghouse@gmail.com

namitwasan9@gmail.com

web : www.discoverypublishinggroup.com

First Edition: 2022

ISBN: 978-93-88854-93-1

Global Warming and Planet

© Editors

All rights reserved. No part of this publication should be reproduced, stored in a retrieval system, or transmitted in any form or by any means: electronic, mechanical, photocopying, recording or otherwise, without the prior written permission of the author and the publisher.

This book has been published in good faith that the material provided by authors/editors is original. Every effort is made to ensure accuracy of material, but the publisher and printer will not be held responsible for any inadvertent error(s). In case of any dispute, all legal matters are to be settled under Delhi jurisdiction only.

Printed at:

Infinity Imaging Systems
Delhi

PRINCIPAL

Khinor Arts Commerce & Science College
Khulabad Aurangabad



Pages: 158-16

Global Warming and Planet

Editors: Dr. Avinash B. Ade and Dr. Sumia Fatima

ISBN: 978-93-88854-93-1

Published by: Discovery Publishing House Pvt. Ltd., New Delhi (India)



Theme of Climate Change in Kim Stanley Robinson's Novel New York 2140

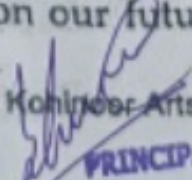
Shaikh Laikh Shaikh Mahemood

Introduction

Nature does not need us to rule over it, but runs itself very well and better without humans. We are the parasites on the food chain of life, consuming more and more, and putting too little back to restore and maintain the life system that support us. This chapter throws a light on a short biography of Kim Stanley Robinson. The author is influenced by the green fuse perceptions. His novel not only providing us great pleasure in evoking all our five senses, but also induces our spirit to safeguard the nature of our forthcoming generations. This chapter attempts to explain Kim Stanley Robinson's many novels in terms of climate change. In his latest novel, New York 2140.

Robinson takes a look at the future of the planet as sea levels rise due to a warming climate and the changes civilization needs to make in order to survive. It's surreal to be reading this book right now, especially against the backdrop of the Trump administration's dismissal of the dangers that climate change poses. There are already a number of fairly bleak novels out there about the affects of climate change. (Look no further than Paolo Bacigalupi's excellent novels *The Windup Girl* and *The Water Knife*.) But Robinson's book feels like the most optimistic take on our future yet. Sure, the water levels

Asst. Professor in English, Dept. of English, Kohinoor Arts, Comm. & Sci. College, Khulatabad,
Dist. Aurangabad,
Mobile No. 08446396733/7385709221
e-mail: laikh786@rediffmail.com


PRINCIPAL
Kohinoor Arts Commerce & Science College,
Khulatabad Aurangabad

GLOBAL WARMING AND PLANET



Dr. Avinash B. Ade • Dr. Sumia Fatima



PRINCIPAL
for Arts Commerce & Science College
Khatibabad Aurangabad



Published by:

DISCOVERY PUBLISHING HOUSE PVT. LTD.

4383/4B, Ansari Road, Darya Ganj

New Delhi-110 002 (India)

Phone : +91-11-23279245, 43596065, 23253475

E-mail : discoverybooksindia@gmail.com
discoverypublishinghouse@gmail.com
namitwasan9@gmail.com

web : www.discoverypublishinggroup.com

First Edition: 2022

ISBN: 978-93-88854-93-1

Global Warming and Planet

© Editors

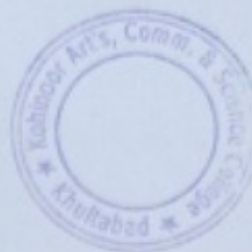
All rights reserved. No part of this publication should be reproduced, stored in a retrieval system, or transmitted in any form or by any means: electronic, mechanical, photocopying, recording or otherwise, without the prior written permission of the author and the publisher.

This book has been published in good faith that the material provided by authors/editors is original. Every effort is made to ensure accuracy of material, but the publisher and printer will not be held responsible for any inadvertent error(s). In case of any dispute, all legal matters are to be settled under Delhi jurisdiction only.

Printed at:
Infinity Imaging Systems
Delhi

PRINCIPAL

Khindoor Arts Commerce & Science College
Khulatabad Aurangabad



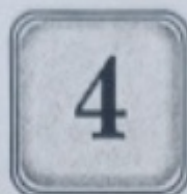
Pages: 16-22

Global Warming and Planet

Editors: Dr. Avinash B. Ade and Dr. Sumia Fatima

ISBN: 978-93-88854-93-1

Published by: Discovery Publishing House Pvt. Ltd., New Delhi (India)



Global Warming *An Alarming Threat*

Mohd. Khizar Syed

Introduction

Climate change is one of the defining issues of our present era. It is now more certain than ever, based on many lines of evidence, that humans are changing Earth's climate. The atmosphere and oceans have warmed, which has been accompanied by sea level rise, a strong decline in Arctic sea ice, and other climate-related changes. The impacts of climate change on people and nature are increasingly apparent. Unprecedented flooding, heat waves, and wildfires have cost billions in damages. Habitats are undergoing rapid shifts in response to changing temperatures and precipitation patterns.

The evidence is clear. However, due to the nature of science, not every detail is ever totally settled or certain. Nor has every pertinent question yet been answered. Scientific evidence continues to be gathered around the world. Some things have become clearer and new insights have emerged. For example, the period of slower warming during the years 2000s and early 2010s has ended with a dramatic jump to warmer temperatures between 2014 and 2015. Antarctic sea ice extent, which had been increasing, began to decline in 2014, reaching a record low in 2017 that has persisted. These and other recent observations have been woven into the discussions of the queries addressed in this chapter.

The 2020 Global Risks Perception Survey from the World Economic Forum ranked climate change and related environmental issues as the top five global risks likely to occur within the next ten years. Yet, the international

Department of Physics, Kohinoor College, Khuldaabad

Principal
Kohinoor Arts Commerce & Science College
Khuldaabad Aurangabad



Recent Studies *On* **CLIMATE CHANGE**

Dr. Rafiullah M. Khan
Dr. Syed Yousuf Hussain

[Signature]

PRINCIPAL
Kohinoor Arts, Comm. & Science College
Khullabad



Recent Studies on Climate Change



Dr. Rafiullah M. Khan
Dr. Syed Yousuf Hussain

❖ Publisher :

Harshwardhan Publication Pvt.Ltd.
Limbaganesh, Dist. Beed (Maharashtra)
Pin-431126, vidyawarta@gmail.com

❖ Printed by :

Harshwardhan Publication Pvt.Ltd.
Limbaganesh, Dist. Beed, Pin-431126
www.vidyawarta.com

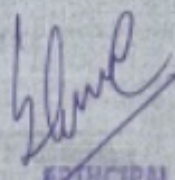
❖ Page design & Cover :

H.P. Office (Source by Google)

❖ Edition: Nov. 2021

ISBN 978-93-92584-41-1

❖ Price : 200/-


PRINCIPAL

Kinnor Arts Commerce & Science Co.
Khudbad Aurangabad



All Rights Reserved, No part of this publication may be reproduced, or transmitted, in any form or by any means, electronic mechanical, recording, scanning or otherwise, without the prior written permission of the copyright owner. Responsibility for the facts stated, opinions expressed. Conclusions reached and plagiarism, If any, in this volume is entirely that of the Author. The Publisher bears no responsibility for them. What so ever. Disputes, If any shall be decided by the court at Beed (Maharashtra, India)

Recent Studies on Climate Change

VIII -Acid Rain: Chemical Reactions Involved, Causes and How to Reduce - 142 - 162

Introduction: Effects of Acid Rain-Effects on Fish and Other Aquatic Life, Effects on Plants and Trees, Effects on Structures, Effects on Human Body. Global Acid Rain Problems- Effects of Acid Rain in India, Effects of Acid Rain in China, Effects of Acid Rain in America and Canada, Effects of Acid Rain in Europe. Reduction Policies of SO₂ and NO_x, Recommendations, Reduce acid rain, References.

- Prof. Sherkhan Y. Pathan

IX -Temperature Perspective of Climate Change -163 - 171

Introduction: What role has the Sun played in climate change in recent decades? Climate is always changing. Why is climate change of concern now? Is the current level of atmospheric CO₂ concentration unprecedented in Earth's history? Did the slowdown of warming during the 2000s to early 2010s mean that climate change is no longer happening? Is the climate warming? If the world is warming, why are some winters and summers still very cold?

- Prof. MohdKhizar Sayed

X -Biotransformation of Benzonitrile - 172 - 182

Introduction: Xenobiotic compounds-pollutant, Methods to eliminate pollutant, Aromatic Nitriles-a pollutant, Benzonitrile properties, Toxicity and uses, Application of Benzonitrile, Benzoic acid and Benzamide, Biotransformation of benzonitrile, References.

- Dr. Vaishali H. Ajane

[Signature]
PRINCIPAL
Kohinoor Arts Commerce & Science College
Khuldabad Aurangabad

XI -An overview on how Biomolecule Plays Role of Neurotransmitters - 183 - 197

Introduction: Amino Acid Functions, Excitatory Neurotransmitters, Inhibitory Neurotransmitters, Amino Acid



Temperature Perspective of Climate Change

Mohd Khizar Syed

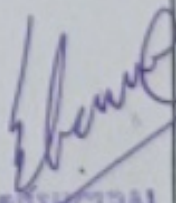
Assistant Professor

Department of Physics

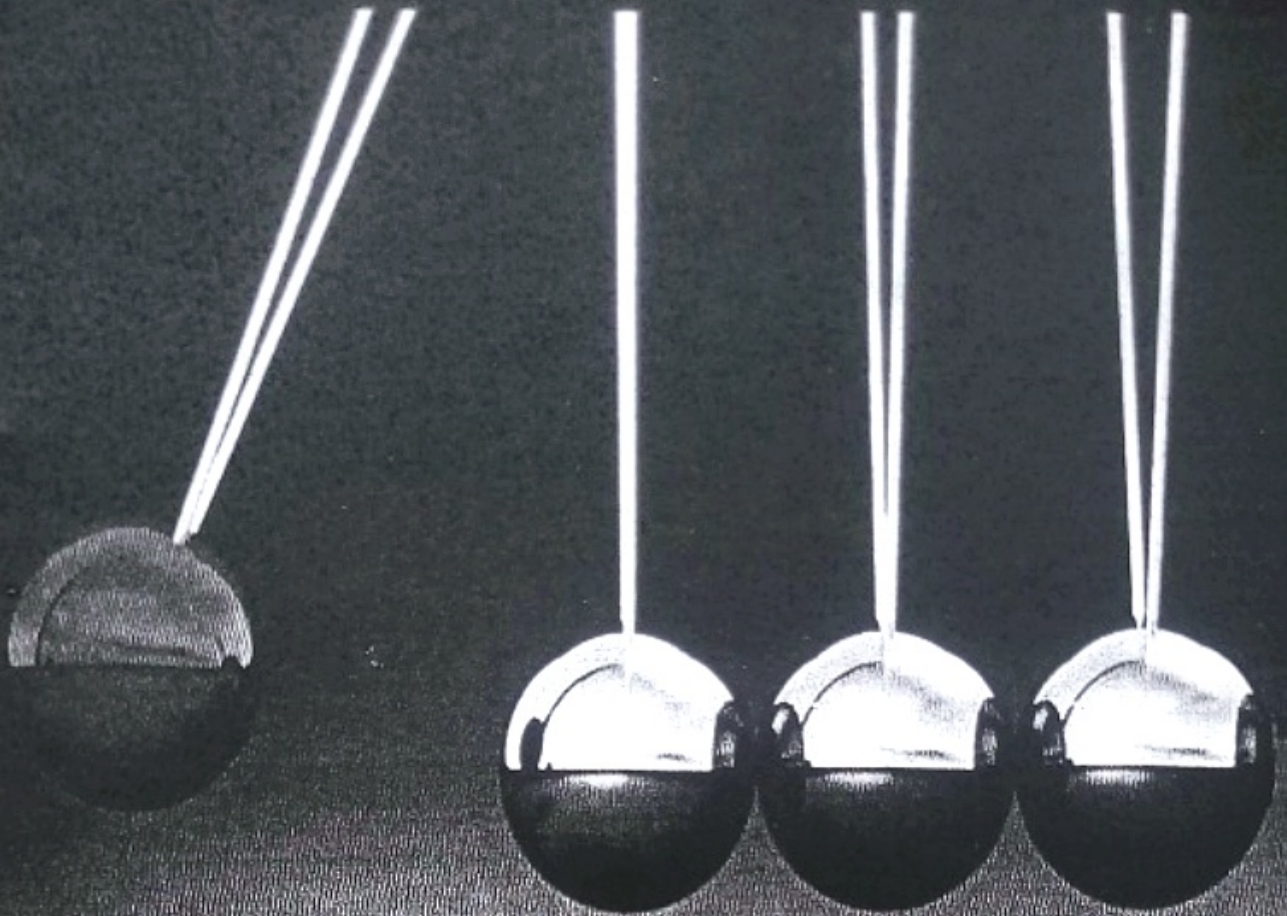
Kohinoor Arts Commerce and Science College, Khulatabad

Introduction:

Climate change is one of the defining issues of our time. It is now more certain than ever, based on many lines of evidence, that humans are changing Earth's climate. The atmosphere and oceans have warmed, which has been accompanied by sea level rise, a strong decline in Arctic sea ice, and other climate-related changes. The impacts of climate change on people and nature are increasingly apparent. Unprecedented flooding, heat waves, and wildfires have cost billions in damages. Habitats are undergoing rapid shifts in response to changing temperatures and precipitation patterns. The evidence is clear. However, due to the nature of science, not every detail is ever totally settled or certain. Nor has every pertinent question yet been answered. Scientific evidence continues to be gathered around the world. Some things have become clearer and new insights have emerged. For example, the period of slower warming during the 2000s and early 2010s has ended with a dramatic jump to warmer temperatures between 2014 and 2015. Antarctic sea ice extent, which had been increasing, began to decline in 2014, reaching a record low in 2017 that has persisted. These and other recent


PRINCIPAL

Kohinoor Arts Commerce & S
Khulatabad Aurang



OBJECTIVE PHYSICS

For B.Sc. Students

Dr. Khigaz said
2021-22



PRINCIPAL

Kotindoor Arts Commerce & Science Colleg.
Khultabad Aurangabad

Editor : Dr. C. M. Kale



OBJECTIVE PHYSICS

For B.Sc. Students

Edited by
Dr. C. M. Kale

Published by
Rushi Publication
B-115, Gajanan Colony, Gharkheda
Aurangabad-431005
E-mail: rushipublication27@gmail.com

Copyright © 2021
Reserved with authors

Edition
First Edition
30 April 2021

Typesetter
Shravani Graphics, Sillod

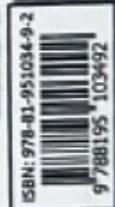
Printed at
Om Print
MIDC, Chikalthana
Aurangabad-(M.S.) India

Total Pages
360

Distributor
Mr. Rahul B. Gavande

Price
Rs. 450/-

ISBN: 978-81-951034-9-2



Note: The information written by every author(s) in this book is his manuscript. It has no concern at all with the publisher, the editor, or the editorial board.

FOREWORD

It gives me an immense pleasure to introduce this book consisting of multiple choice questions based on undergraduate (B.Sc.) Physics curriculum by the Editor Dr. C. M. Kale of Indraraj Arts, Commerce and Science College, Sillod. Dr. C. M. Kale and his co-authors have been teaching this subject for over twenty years and achieved thorough depth in the subject.

This book covers the current syllabus prescribed for the B.Sc. 1st, 11th and 111rd year students and deals with the multiple choice questions generated on various topics of Physics with optimum level. M.C.Qs are also set on application of laws, principles and concepts of Physics.

I am sure, the book will prove a boon to students of B.Sc. as well as those students who are appearing for SET, NET, PET and other competitive examinations and help them to acquire sound knowledge of the Physics

In today's pandemic situation all universities are going for online MCQ type examinations as well. For them this book will be very useful to teachers.

Dr. K. M. Jadhav

Dr. K. M. Jadhav
Senior Professor
Dept. of Physics,
Dr. B. A. M. U. Aurangabad.

Dr. K. M. Jadhav

Dr. K. M. Jadhav
Senior Professor
Dept. of Physics,
Dr. B. A. M. U. Aurangabad.

SECTION-X: ELECTRODYNAMICS

37. ELECTROSTATICS

Dr. Bhausaheb H. Devmunde
Assistant Professor, Department of Physics
Vivekanand Arts, Sardar Dalip Singh Commerce and
Science College, Aurangabad

38. TIME-VARYING FIELD

Dr. Pathan Abdul Rahman Wahed Khan
Assistant Professor, Department of Physics
Arts, Science and Commerce College Badnapur,
Dist. Jalna

39. ELECTROMAGNETIC WAVES

Mr. Mohd Khizar Syed
Assistant Professor, Department of Physics
Kohinoor College, Khuldabad. Dist. Aurangabad

40. INTERACTION OF ELECTROMAGNETIC WAVES WITH MATTER

Dr. Ravindra C. Alange
Associate Professor, Department of Physics
Shri Madhavrao Patil Mahavidhyala, Murum.
Dist. Osmanabad

SECTION-XI: ATOMIC, MOLECULAR PHYSICS AND LASER

41. THE ATOM MODEL

Dr. Chandrashekhar M. Kale
Assistant Professor and Head, Department of Physics
Indraraj Arts, Commerce and Science College, Sillod.
Dist. Aurangabad

42. VECTOR ATOM MODEL

Mrs. Quadri Firdose Basheer
Assistant Professor, Department of Physics
Dr. Rafiq Zakaria College for Women, Navkhandla,
Aurangabad

43. MOLECULAR SPECTRA

Dr. Mahesh K. Babrekar
Assistant Professor, Department of Physics
Indraraj Arts, Commerce and Science College, Sillod.
Dist. Aurangabad

44. LASER

Mr. Kiran. H. Katke
Assistant Professor,
Department of Physics and electronics
Anandrao Dhonde Alias Babaji Arts, Commerce and
Science Mahavidyalaya, Kada. Tq. Ashti, Dist. Beed

SECTION-XII: NON-CONVENTIONAL ENERGY SOURCES AND OPTICAL FIBER

45. NON-CONVENTIONAL ENERGY SOURCES 317-322

Dr. Shaikh Mohd. Azhar
Vice-Principal and Associate Professor,
Department of Physics
Sir Sayyed College of Arts, Commerce, and Science.
Roshan gate, Aurangabad

46. SOLAR PHOTOVOLTAIC SYSTEMS 323-331

Dr. Raghunath G. Vidhate
Assistant Professor and Head, Department of Physics
Anandrao Dhonde Alias Babaji Arts, Commerce and
Science Mahavidyalaya, Kada. Tq. Ashti, Dist. Beed

47. INTRODUCTION OF OPTICAL FIBER 332-337

Dr. Shivanand V. Kshirsagar
Vice-Principal and Head, Department of Physics
Mrs. Kesharbai Sonajirao Kshirsagar Alias Kaku Arts,
Science, and Commerce College, Beed

48. FIBER CABLES AND FABRICATION 338-344

Dr. Sayyad Shafiyoddin B.
IEEE Senior member, FIETE, FIARA, URSI Senior
member, Associate Professor and Head, Department of
Physics and Computer & Mgt. Science
Milliya Arts, Science and Management Science College,
Beed.



ELECTROMAGNETIC WAVES

MULTIPLE CHOICE QUESTIONS

- 1]. Who has produced electromagnetic waves first?
(a) Marconi (b) Maxwell
(c) J. C. Bose (d) Hertz
- 2]. According to Maxwell, a changing electric field produces, ---
(a) EMF (b) Electric current
(c) Magnetic field (d) Radiation pressure
- 3]. Which have the following have zero average value in a plane EM wave?
(a) Electric energy (b) Magnetic Energy
(c) Electric field (d) None of these.
- 4]. Astronomers have found that EM waves of wavelength 21cm are continuously reaching on the Earth's surface. Calculate the frequency of this radiation. (Velocity of light = 3×10^8 m/sec)
(a) 14.28 GHz (b) 1.428 KHz
(c) 1.428 MHz (d) 1.428 GHz
- 5]. Speed of EM wave is the same, ---
(a) For all wavelengths (b) In all media
(c) For all intensities (d) For All frequencies
- 6]. Which of the following can be used to produce a propagating electromagnetic wave?
(a) A static charge (b) A moving charge
(c) Charge less particle (d) An accelerating charge
- 7]. Electromagnetic waves used in medicine to destroy cancer cells, ---
(a) Radio waves (b) Infrared rays
(c) Gamma rays (d) Ultraviolet rays
- 8]. Which of the following electromagnetic waves is used in telecommunication?
(a) Radio waves (b) Visible radiations
(c) Ultraviolet rays (d) Micro waves
- 9]. The wavelength of X-rays is of the order of
(a) 1cm (b) 1m
(c) 1micron (d) 1angstrom unit
- 10]. the electric and magnetic fields of electromagnetic waves are, ---
(a) In phase and perpendicular to each other
(b) In phase and parallel to each other
(c) In opposite phase and perpendicular to each other
(d) In opposite phase and parallel to each other
- 11]. If a source is transmitting electromagnetic wave of frequency 8.2×10^6 Hz, then the wavelength of the electromagnetic waves transmitted from the source will be, ---
(a) 36.6m (b) 42.3m
(c) 40.5m (d) 50.9m
- 12]. The velocity of light in vacuum can be changed by changing, ---
(a) Frequency (b) Wavelength
(c) Amplitude (d) None of these
- 13]. The SI unit of displacement current is, ---
(a) Coulomb (b) Henry
(c) Ampere (d) Faraday
- 14]. The electromagnetic waves do not transport, ---
(a) Energy (b) Charge
(c) Momentum (d) Information
- 15]. The wavelength of X- rays is of the order of, ---
(a) 10^{-3} m (b) 10^{-5} m
(c) 10^{-10} m (d) 10^{-12} m



ISBN- 978-81-953847-8-5

Sustainable Development for Society, Industrial Development, Material, Energy and Environment: Key Issues, Opportunities and Challenge

Editors

Mr. Santosh P Mane
Dr. B. M. Bhanje
Dr. F. M. Nadaf
Dr. Sandeep Rout
Dr. Babalola A. Samuel

Dr. Praveen G. Saptarshi
Dr. S. D. Shinde
Dr. H. B. Tipe
Dr. Muhammad Yasir
Dr. Kavitha G. N.



Shinde

PRINCIPAL
Khushnour Arts Commerce & Science
Khushnabad Aurangabad



**Jyotikiran Publications, Pune
International Publication**



Title : Sustainable Development for Society, Industrial
Development, Material, Energy and Environment: Key
Issues, Opportunities and Challenges

Editor Name : Santosh P Mane, Dr. Praveen G. Saptarshi, Dr. S. D.
Shinde, Dr. B. M. Bhanje, Dr. F. M. Nadaf, Dr. H. B.
Tipe, Dr. Sandeep Rout, Muhammad Yasir, Dr.
Babalola Ayodele Samuel, Dr. Kavitha G. N.

Publishing Agency : Jyotikiran Publication, Pune

Publisher Address : Santosh Pandurang Mane
Sr. No. 204, Sahajeevan Society,
Bhekrinagar, Hadpsar, Pune-8
Mob- 8888454089
Email- jyotikiranpublicationpune@gmail.com

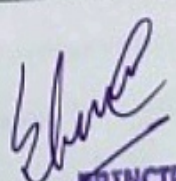
Printed By : Amitsons Digital Copier 106, Paras
Chamber, 1st Floor, Above Bank Of
India, Near Laxminarayan Theatre,
Swargate, Pune- 411009

Edition Details : 1st

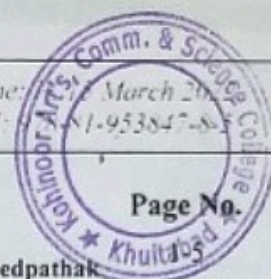
ISBN : 978-81-953847-8-5

Copyright : © Santosh P Mane

Publication Date : 15/03/2022

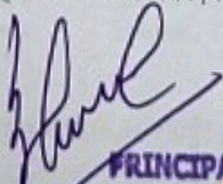

PRINCIPAL
Kohinoor Arts Commerce & Science College
Khulabad Aurangabad

JYOTIKIRAN PUBLICATION, PUNE (INTERNATIONAL PUBLICATION)



Sr. No.	CONTENTS Paper Title	Page No.
1	Budgetary position of Raigad Zillah Parishad Dr. Madhukar Ramchandra Vedpathak	
2	Study of Adulteration in different milk sample in Osmanabad city Rahulraj Gavit, Swati Jadhav	6-8
3	Tiruppur Kumaran – Tamilnadu Freedom Fighter Dr.C.Shoba	9-12
4	Science and development of health communication Dr. Ravia Gupta	13-16
5	A Study of Challenges and Opportunities in Textile Industry with Special Reference to Solapur City Mrs. Prof. Pratibha Dattatrya Pudale	17-20
6	Fly Ash as an Alternative to Enhance the Soil Condition and Plant Growth Geeta Dhania	21-23
7	Psychological Perspectives of Mother Daughter Relationship in Toni Morrison's Beloved and The Bluest Eye Kadam Sangita sopanrao	24-25
8	Groundwater Quality Assessment for Drinking and Irrigational Purposes in Punjab Sarish Khera	26-34
9	Religion and Human Rights: A Critical Approach Mrs. Ipsita Chakraborty, Ms. Priyanka Sarkar	35-39
10	Skill Based Education and Employability Dr. Tippanna B. Kolkar	40-45
11	Review: Zno Nanostructures by Sol-Gel Deposition Technique for Optoelectronics Applications Leena M Mahajan	46-50
12	Hostile Witness/ Questions by Party to His Own Witness Asst.Prof. Bhosale Rakesh Arvind	51-54
13	Water Quality Index: A Case Study Ingole R.N.	55-56
14	Water and Energy Nexus in Punjab: An Agrarian Crisis Sarish Khera	57-64
15	A GIS based Spatial Pattern of Land use in Kurnool District of Andhra Pradesh, India B. Appanna, Dr.Y. Sujatha, Joshi sai Prakash Chowdary	65-73
16	Physical Fitness During Lockdown Period Among Undergraduate Students: A Survey Dr. Dipak Prakash Saudagar	74-77
17	Literacy And Sex Ratio Analysis For Sustainable Development Goals Of Gender Equality – A Case Study Of Nashik Municipal Corporation, Maharashtra Dr. Dnyaneshwar N. Pawar	78-84
18	New Trends in Travel and Tourism Industry: An Overview Dr. Vasant Balu Boraste	85-90
19	The Role of Tourism in Sustainable Development of Maharashtra Prof. V.S. Asawale	91-94
20	"Use of Renewable Energy Resources for Sustainable Development: Production, Opportunity and Challenges – A Case Study of Maharashtra" Dr. Sanjay B. Ghodase	95-97
21	Sustainable Development - Growth in Higher Education in India Tushar Ambadas Pachkhande, Dr. A.S. Khandekar	98-103
22	Helminths: Taxonomic Characteristics and Protocols of Helminth Taxonomy Dr. Dhanraj Balbhim Bhure, Dr. Sanjay Shamrao Nanware, Dr. Kalim Shaikh	104-107
23	Geochemistry of Urban Dust Taken In Parts of Chennai City and Its Ambient Pollution Caused To the Environment Amer Prem. A, Balaji. S, Yamini Sivanandam	108-116
24	Environmental Issues and Challenges	117-122

25	Need of Sustainable Development of Hotel Industry in India after Pandemic Covid-19 Ishwar Baburao Ghorude, Kirti Sadhurao Nihalwad	123-126
26	The Stir casting process based on IoT for the Manufacturing of Aluminium Matrix Composites Dr.Sunil Subhash Patil	127-133
27	Corporate Social Responsibility and Banking Sector-An Impact Analysis Rajesh M. Sreeram Daida	134-137
28	Role of Women in the Socio-Economic Development of India Seijathang Haolai	138-140
29	Disciplinary and Social Implications with Awareness of Environment in Our Youth Dr. Hari Om Bhardwaj	141-148
30	Preparation, Physical, Analytical And Structural Characterization Of 1:1 Physical Ratio Value Of Solid Powder Methanolic Neem Bark Extract And Aqueous Neem Bark Extract. Miss Sudipta Roy, Dr. Anirudh Singh Deora	149-157
31	Planktons as Biological indicators of Environmental pollution – A review Prabha, Anish Dua	158-161
32	Modern Techniques in Genetic Enhancement of Pulse Crops Tushadri Singh, Ashish Sheera, Ashish Bhatt, Sandeep Rout	162-166
33	Precision Farming in Fruit Crops Uzma Gulzar, Undleeb Gulzar, Dr. Mahital Jamwal, Prabhdeep Singh, Dr Kiran Kour and Dr. Deep ji Bhai	167-180
34	The Transfusion Of Ecological Consciousness In The Eco Tone Of Eco Poetics: A Selective Study Dr Aditi Abhishikta	181-184
35	राजस्थान में वर्षा जल संचयन Dr. Dinesh Kumar, Anil Kumar	185-188
36	मुगलों का दक्कन नीति (१२२६-१७०७) एक ऐतिहासिक अध्ययन प्रो० कार्तिक प्रसाद यादव	189-190
37	महिलाओं की राजनीतिक सहभागिता को बढ़ाने में गैर सरकारी संगठनों की भूमिका डॉ० अजय बहादुर सिंह, अरुण कुमार	191-193
38	जल व्यवस्थापन आणि शाश्वत विकास संध्या शिवहार आढाव, डॉ. एन. के. वाघमारे	194-198
39	युद्धाचा पर्यावरणावरील प्रभाव प्रा. डॉ. सुर्यकांत नागनाथ कळसकर	199-203
40	अकूरमाशी ते सनातन सन्माननीय प्रवास प्रा. मोहन बाबुराव चव्हाण	204-210
41	भारताचे संरक्षण क्षेत्र: खर्च आणि धोरण डॉ. खिस्ते ओंकार बाळकृष्ण	211-216
42	चंद्रपूरची महाराणी हिराईचे राजकीय, सामाजिक, आर्थिक, धार्मिक व सांस्कृतिक क्षेत्रातील योगदान डॉ. प्रमोद ना. घ्यार	217-221
43	महाराष्ट्रातील चंद्रपूर जिल्ह्यातील वदलत्या हवामानाविषयी शेतकऱ्यांच्या श्रकलनाचा अभ्यास गिरीश टी. पंचभाई	222-226


PRINCIPAL
Jyotikiran Arts Commerce & Science College,
Khuldabad Aurangabad

ENVIRONMENTAL ISSUES AND CHALLENGES

Ishwar Baburao Ghorude¹ Kirti Sadhurao Nirajwad²

¹Department of Environmental Science, Kohinoor Arts, Commerce & Science College, Khultabad,
Aurangabad.

²Department of Chemistry, Nutan Mahavidhyalaya, Selu, Parbhani

*Corresponding Author: Ishwar Baburao Ghorude

Email ID- ghorade.ishwar@gmail.com



Abstract:

"Environmental issues are defined as "problems with the planet's systems (air, water, soil, and so on) that have arisen as a result of human meddling or mistreatment." A severe environmental catastrophe is rapidly approaching on our planet. The existing state of the ecosystem puts us at risk for disasters and tragedies today and in the future. We are living in a time of global crisis as environmental issues mount all around us. We are doomed to failure unless we take a cautious and serious approach to the many issues at hand. Current environmental issues also necessitate immediate action. An environmental issue is a problem caused by human activities that has a negative influence on the biophysical environment. For both humans and nature, environmental protection is the act of safeguarding the natural environment, whether on a personal, corporate or governmental level. Environmentalism, a social and environmental movement, seeks to address environmental issues through advocacy, legislation, outreach, and other forms of direct action.^[1] There is a global problem with human-induced environmental destruction. Even if human society manages to stay within the limits set by our planet, most experts believe that a peak world population of 9-10 billion people can coexist peacefully within Earth's ecosystems.^{[2][3][4]} The world's most affluent people are to blame for the vast bulk of environmental damage.^{[5][6][7]} This year, the UN Environmental Program released its 2021 "Making Peace With Nature" Report, which stated it is possible to solve environmental issues including pollution, climate change and biodiversity loss if all parties work together to meet SDGs.^[8] There are a slew of environmental issues facing the country. India is dealing with a wide range of environmental concerns, including air pollution, water pollution, trash, banned commodities, and the damage of the natural environment. Also, in India, natural calamities are inflicting havoc. Situations were far more dire during that time period (1947-1995). According to data gathered and environmental assessments verified by World Bank specialists throughout the period 1995-2010, India made some of the fastest progress in addressing its environmental concerns and improving its environmental quality worldwide.^{[1][2]} Even still, India has a long way to go before it can achieve environmental standards comparable to those seen in rich economies. For India, pollution is both a challenge and an opportunity.

Law and Policies:

During the British rule of India, various environmental regulations were enacted. The Shore Nuisance (Bombay and Kolkata) Act of 1853 and the Oriental Gas Company Act of 1857 were among the first. Anyone who voluntarily fouls the water of any public spring or reservoir faces a fine under the Indian Penal Code of 1860. In addition, the Code made careless acts punishable. In addition, Government policy in British India tried to reduce emissions of polluting substances into the atmosphere. Notable examples are the Bengal Smoke Nuisance Act (1905) and the Bombay Smoke Nuisance Act (1912). India's environmental regulations were shaped in part

by these failed attempts at legislation. After independence from the UK, India established a constitution and a slew of British-enacted laws, but the country's founding document made no mention of environmental protection. India's constitution was revised in 1976. According to Article 48(A) of Part IV of the updated constitution, the State shall strive to conserve and improve the environment, as well as the country's forests and animals. Article 51 A of the Indian Constitution imposes additional environmental requirements on the state (g). To name just a few contemporary Indian legislation, there's the 1974 act on water pollution prevention and control, 1980's act on forest conservation, and

117

Dr. Chausaheb Jadhav

2021-22

Mahilauche Sautantke ladyateel yogdan.



समकालीन विमर्श

सम्पादक-डॉ. भगवान कदम



नवसाहित्यकार प्रकाशन, नांदेड़

Shub

PRINCIPAL

Kohinoor Arts Commerce & Science College
Khultabad Aurangabad





पुस्तक : - समकालीन विमर्श

सम्पादक : - डॉ.भगवान कदम

ISBN-NO. : 978-81-947571-6-0

प्रकाशन / प्रकाशक

डॉ.सुनील जाधव

नव साहित्यकार पब्लिकेशन,

महाराणा प्रताप हाउसिंग सोसाइटी.

हनुमान गढ़ कमान के सामने,

नांदेड-महाराष्ट्र-439605

मो.9405384672

www.navsahitykarpublishation.com

मुद्रण-

तन्मय प्रिंटेर्स, नांदेड

डॉ.सुनील जाधव, नांदेड

© सर्वाधिकार लेखक एवं

प्रकाशक के पास सुरक्षित हैं।

मूल्य:-150

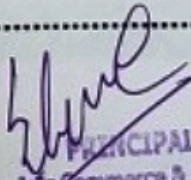
संस्करण-प्रथम

प्रकाशन वर्ष- 2022


PRINCIPAL
Kohinoor Arts Commerce & Science College
Khultabad Aurangabad



संपादकीय.....प्रा.डॉ.कदम भगवान	3
1.स्त्री-विमर्श और चित्तकोबरा -अंजली जोशी.....	11
2.प्रभा खेतान के साहित्य में स्त्री विमर्श -डॉ. अंजू सिंह	16
3.अज्ञेय और 'बाल जगत् की देहरी पर' निबंध -डॉ.अनुकूल सोलंकी.....	20
✓ 4.महिलांचे स्वातंत्र्य लढ्यातील योगदान -डॉ.भाऊसाहेब यशवंता जाधव	25
5.राष्ट्रनायक भगतसिंह के मानवदर्शन में दलित सांस्कृतिक यथार्थ - बुद्धिराम.....	30
6.समकालीन हिंदी साहित्य में दलित विमर्श -प्रा. डॉ. दत्तात्रय सदाशिव अनारसे.....	38
7."पर्यावरण के लिए मानवीय विकास एक गंभीर चुनौती" - डॉ.रामसिया चर्मकार.....	42
8.श्रीमती सुमद्रा कुमारी चौहान का बाल साहित्य में योगदान -प्रा.डॉ.नलिनी एस. पशीने.....	49
9.स्त्री विमर्श : बदलता परिदृश्य -डॉ० शीनू.....	57
10.संजीव कृत जंगल जहाँ शुरू होता है उपन्यास में आदिवासी विमर्श -ज्ञानेश्वर जाधव	62


PRINCIPAL
Khajinor Arts Commerce & Science College
Khajinor, Multitask





4. महिलांचे स्वातंत्र्य लढ्यातील योगदान

-डॉ. भाऊसाहेब यशवंता जाधव

इतिहास विभाग.

कोहिनूर कला, वाणिज्य व विज्ञान महाविद्यालय, खुलताबाद, जिल्हा, औरंगाबाद.

भारताच्या स्वातंत्र्य लढ्याची एकूण माहिती तरुण पिढीला कमीच आहे आणि त्यातल्या त्यात स्वातंत्र्यलढ्यामध्ये गरिबांपासून गर्भश्रीमंत स्त्रियांपर्यंत अनेक प्रकारच्या स्त्रियांनी केलेल्या कामगिरीबद्दल तर अज्ञानच आहे. पुरुषांच्या खांद्याला खांदी लावून स्वातंत्र्य लढ्यात भाग घेणाऱ्या आणि वर्चस्वाचे समर्पण करणाऱ्या या शूर महिलांचे योगदान हे भारतीय स्वातंत्र्य लढ्यात महत्त्वाचे आहे. इ.स. 1947 मध्ये भारत स्वतंत्र झाला. या स्वातंत्र्याच्या प्राप्तीसाठी लाखो-करोडे स्त्री-पुरुष व बालक-बालके यांनी आपले प्राण दिले आहेत. 1997 ते 1998 हे भारताच्या स्वातंत्र्याच्या सुवर्णमहोत्सवाचे वर्ष. स्वातंत्र्य मिळाल्यापासून गेली पन्नास वर्षे स्त्रियांच्या स्वातंत्र्य युद्धातील कामगिरीकडे सतत दुर्लक्ष झाले. महिला नेत्यांचे गुणगाण आवश्यक झाले व दुर्लक्षितपण झाले. परंतु आपण एक गोष्ट विसरलो आंदोलनाला कर्तबगार नेत्यांची आवश्यकता असते. त्यापेक्षा कितीतरी पटीने अधिक बलिदान करायला निघालेल्या स्वयंसेवकाची असते. म्हणूनच या बऱ्या नेत्यांबरोबर समाजातील सर्व स्तरातील महिलांनी कोणती कामगिरी केली हे ही पाहणे जरूरीचे आहे. भारताचा पहिला स्वातंत्र्यसंग्राम 1857 मध्ये झाला. 1857 चे स्वातंत्र्य युद्ध म्हटले की, आपल्याला झाशीची राणी आठवते. राणी लक्ष्मीबाईने फक्त युद्धाचे नेतृत्व केले नाही तर मध्यप्रदेशातील स्त्रियांनी युद्धाच्या कामात सहभाग करण्यात प्रेरणा व उत्तेजन दिले. लक्ष्मीबाईंच्या दोन दासी काशी व सुंदर या युद्धकलेत प्रविष्ट होत्या. त्यांची राणीवर फार मोठी निष्ठा होती. लक्ष्मीबाई ग्वाल्हेरच्या किल्ल्यातून दासीच्या वेषात रात्रीच निघून गेली. सध्या काशिने राणीचा वेष केला व राणीच्या पलंगावर झोपून राहिली. 1857 च्या युद्धात डावपेच लढविण्यात दिनत महलचा मोठा हिस्सा होता. असे मानले जाते. बेगम हजरत महल ही अवधचा नवाब वाजिदअली शह यांची पत्नी होती. जीवनापेक्षा कलावंताचे जीवन अधिक पसंत करीत, परिणामी ब्रिटीशांनी त्यांचे राज्य छालसा केल्याबरोबर त्यांनी पाठवलेल्या ठिकाणी ते निघून गेले.

विसावे शतक : विसाव्या शतकातील पहिली जयप्रसिद्ध स्त्री. स्वातंत्र्यसैनिक भिकाईजी रुस्तुम कामा ह्या छोट. त्या मादाम कामा नावाने ओळखल्या जात. त्या खानदानाची पारसी

PRINCIPAL
Kohinoor Art's, Comm. & Science College
Khultabad

Dr. Aslam Zhabbu

2021-22 - Bary



Balance Diet for Secondary School Sportsman

Dr. Shaikh Aslam Zhabbu



Handwritten signature

PRINCIPAL

Kohinoor Arts Commerce & Science Coll.,
Khulatabad Aurangabad



Published by:

Khel Sahitya Kendra

7/26, Ansari Road, Darya Ganj,
New Delhi - 110 002.

Ph.: 011-42564726, 47090343, 43551324, (M) 9811088729

E-mail: khelsahitya@rediffmail.com, vivekthani@gmail.com

Website: www.khelsahitya.com, www.kskpublisher.com

© 2020 - Publisher

ISBN - 978-81-947808-2-3

PRINTED IN INDIA 2020

No part of this publication may be re-produced, stored in a retrieval system or published/distributed in any form or by any means, electronic, mechanical, photocopying, recording, scanning, web or otherwise without the written permission of the Publisher. Publisher has obtained all the information in this book from the sources believed to be reliable and true. However, Publisher or its editors or illustrators don't take any responsibility for the absolute accuracy of any information published, and the damages or loss suffered thereupon.

All disputes subject to Delhi jurisdiction only.

Typeset by:

KSK DTP UNIT, DELHI

Printed at:

ASIAN OFFSET, DELHI

PRINCIPAL

Kohinoor Arts Commerce & Science College,
Khulatabad Aurangabad



CONTENT

UNIT-I 1-25

INTRODUCTION DIET AND HEALTH

Introduction, Types of Diets, The Mediterranean Diet, The Vegan Diet, The Paleo Diet, Raw Food Diet, The Blood Type Diet, Ketogenic Diet.

UNIT-II 26-70

EXERCISE AND DIET

Pre Exercise Diet, Protein, Carbohydrates, Fats, Pre workout foods for sportsman, Vitamins /Minerals that may help during Exercise, Pre Workout Snacks, Food and drink during Exercise, Water and Exercise, Nutrition for Sport and Exercise, Post Exercise Diet.

UNIT-III 71-154

YOGA AND EXERCISES FOR SPORTSMAN

Why Every Sportsman Should Do Yoga, Amazing Benefits Of Yoga For Sportsmans, Yoga / Exercises for Sportsmans /Athletes.

UNIT-IV 155-170

DRUG ABUSE FOR SPORTSMAN

Why Do Athletes/Sportsman Use Drugs, Types of Drugs That Sportsman/ Athletes Use, Drug Use in College and High School Sportsman/Athletes, How Many Athletes Use Drugs, Effects of Drug Abuse in Athletes, Recovery Programs for Sportsman/Athletes.

BIBLIOGRAPHY 171-172

PRINCIPAL

Kohinoor Arts Commerce & Science College
Khulatabad Aurangabad



Dr. Shaikh Aslam Zhabbu National Football player and played in so many different games Like Hockey, softball, Handball and Ect. I also published so many Papers in national International Journals on Physical Education. I have completed my from Dr. Baba Saheb Ambedkar Marathwada University Aurangabad Maharashtra I have done NIS In Handball (CC) I Have My Football Club where so many footballers comes and play football and go for national and international level I done 10

year worked as physical teacher in Podar International School (ICSE) Aurangabad I Was National Football Girls Team coach at Goa, Jammu Kashmir.



Khel Sahitya Kendra

The Largest Stockist & Publisher of Sports & Physical Education Books in India

7/26, Ansari Road, Daryaganj, New Delhi - 110002

Ph. (M) 981088729 (O) 011-42564726, 47090343, 43551324

E-mail : khelsahitya@rediffmail.com, vivekthani@gmail.com

Website: www.khelsahitya.com, www.kskpublisher.com

PRINCIPAL

Khulnoor Arts Commerce & Science Co" Rs. 700/-
Khuldabad Aurangabad

ISBN 978-81-947808-2-3



9 788194 780823

WWW.KSKPUBLISHER.COM

Dr. Rafiullah Khan

2021-22
21-22



Recent Studies *On* **CLIMATE CHANGE**

Dr. Rafiullah M. Khan
Dr. Syed Yousuf Hussain

Muhammad
PRINCIPAL
Kohinoor Arts, Comm. & Science College
Khulabod



Recent Studies on Climate Change



Dr. Rafiullah M. Khan
Dr. Syed Yousuf Hussain

❖ **Publisher :**

Harshwardhan Publication Pvt.Ltd.
Limbaganesh, Dist. Beed (Maharashtra)
Pin-431126, vidyawarta@gmail.com

❖ **Printed by :**

Harshwardhan Publication Pvt.Ltd.
Limbaganesh, Dist. Beed, Pin-431126
www.vidyawarta.com

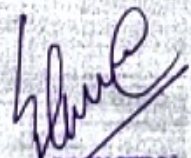
❖ **Page design & Cover :**

H.P. Office (Source by Google)

❖ **Edition: Nov. 2021**

ISBN 978-93-92584-41-1

❖ **Price : 200/-**


PRINCIPAL
Kohinoor Arts, Commerce & Science College
Khultabad Aurangabad



All Rights Reserved, No part of this publication may be reproduced, or transmitted, in any form or by any means, electronic mechanical, recording, scanning or otherwise, without the prior written permission of the copyright owner. Responsibility for the facts stated, opinions expressed. Conclusions reached and plagiarism, If any, in this volume is entirely that of the Author. The Publisher bears no responsibility for them. What so ever. Disputes, If any shall be decided by the court at Beed (Maharashtra, India)



Contents

I- Climate change: A global issue -11 - 27

Introduction: Weather, Climate, Climate Change, Causes of climate change-Carbon dioxide (CO₂), Methane (CH₄), Water vapor (H₂O), Nitrous oxide (N₂O), Chlorofluorocarbons (CFCs), Effects of Climate change, Prevention and control-At individual level, At international level, Instances illustrating impact of climate change on environment, References.

- Prof. Mohammad Hanif

II -Ecosystem and its Restoration 28 - 48

Introduction: Components of an ecosystem, Food Web and Food Chain and Energy flow, Nutrient cycle, Types of Ecosystem, Stability and dynamics of ecosystems, Ecosystem degradation and decline, Need of Ecosystem Restoration and Sustainable Development, References.

- Dr. Tahesinkhan D. Pathan

III -Biodiversity and Conservation 49 - 70

Introduction: Definition, What is biodiversity? Genetic diversity, Species diversity, Ecosystem diversity, Functional Diversity and Evolution of biodiversity. Biogeographic Classification of India-India's Biogeographic Zones; Values of biodiversity- Environmental Value; Social Value, India as a Mega Diversity Nation- Threats to Biodiversity; Endangered and Endemic Species of India; Conservation of Biodiversity- In-situ Conservation, Ex-situ Conservation- Strategies for Biodiversity Conservation.

- Dr. Rafiullah M. Khan

PRINCIPAL

Kohinoor Arts Commerce & Science College
Khulatabad Aurangabad

03

Biodiversity and Conservation

Dr. Rafiullah M. Khan

U.G. & P.G. Department of Botany, Kohinoor Arts, Commerce
and Science College, Khuldabad, Dist. Aurangabad -
(M.S.) India.



Introduction

The great variety of life on earth has provided for man's need soverthous and so years. This diversity of living creatures forms a support system which has been used by each civilization for its growth and development. Those that used this "bounty of nature" carefully and sustainably survived. Those that overused or misused it did not.

Biodiversity is the variety of living species on Earth plants, animals and microorganisms and the ecosystems they form. An ecosystem is the name given to all living species that live together in a stable community, interacting with one another and their physical environment. Biodiversity includes the diversity within species and between different species within terrestrial, freshwater and marine ecosystems. Ecosystems need a balanced and diverse number of species to thrive.

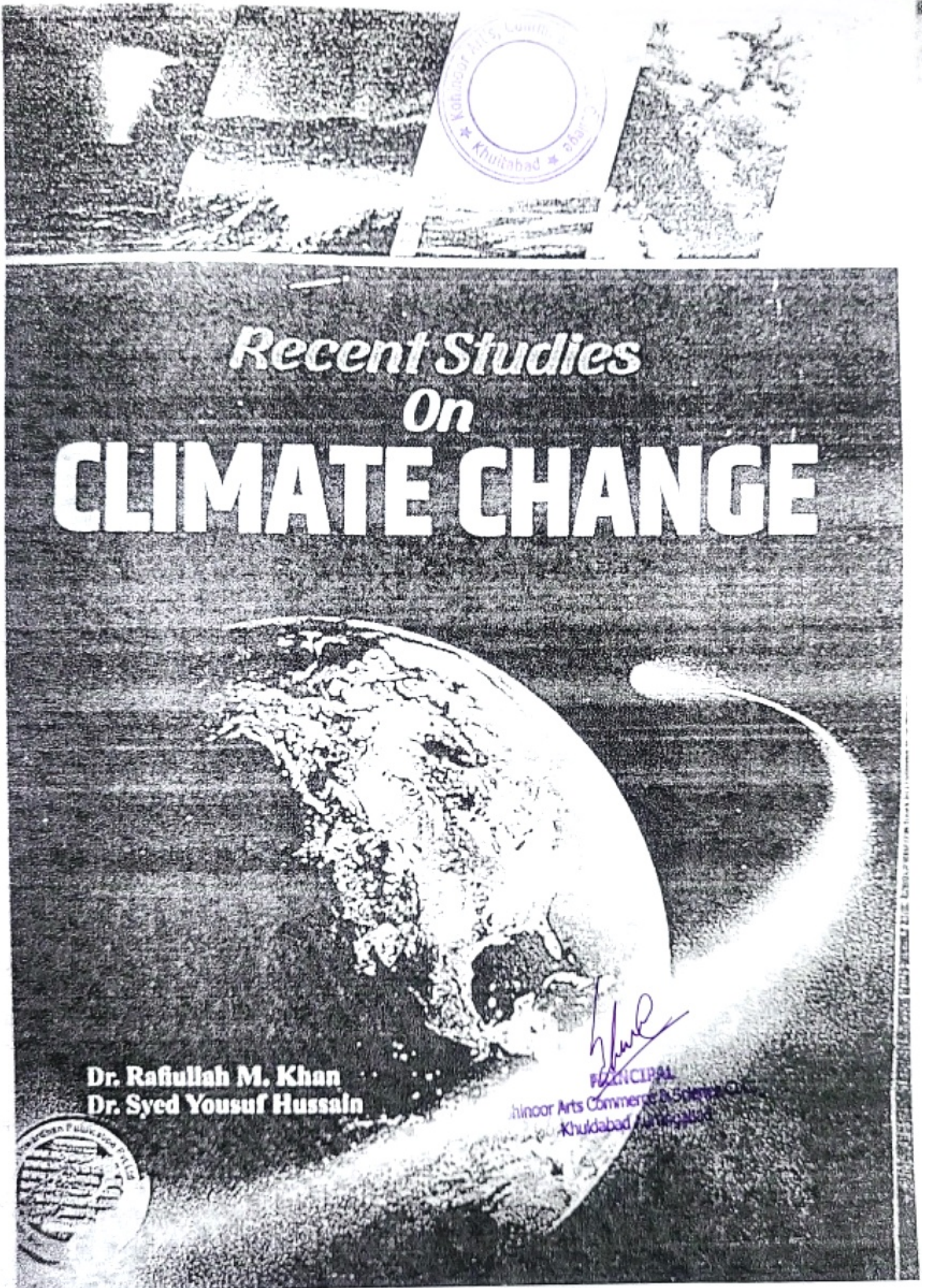
Biodiversity plays a critical role in sustaining human populations across the globe. We depend on it for sustained food growth, for clean air and water and for medicine and shelter. It is no surprise then that ecosystem degradation threatens our most basic necessity – a healthy environment

Schoener, Thomas W. (2009). "Ecological Niche". In Simon A. Levin (ed.). *The Princeton Guide to Ecology*. Princeton: Princeton University Press. pp. 2–13. ISBN 978-0-691-12839-9.

Carpenter, Stephen R. (1996). "Microcosm Experiments have Limited Relevance for Community and Ecosystem Ecology". *Ecology* 77 (3): 677–680.



[Signature]
Principal
Kohinoor Arts, Commerce & Science College
Khuldabad, Aurangabad



Recent Studies on Climate Change

Dr. Rafiullah M. Khan

Dr. Syed Yousuf Hussain



❖ **Publisher :**

Harshwardhan Publication Pvt.Ltd.
Limbaganesh, Dist. Beed (Maharashtra)
Pin-431126, vidyawarta@gmail.com

❖ **Printed by :**

Harshwardhan Publication Pvt.Ltd.
Limbaganesh, Dist. Beed, Pin-431126
www.vidyawarta.com

❖ **Page design & Cover :**

H.P. Office (Source by Google)

❖ **Edition: Nov. 2021**

ISBN 978-93-92584-41-1

❖ **Price : 200/ -**

[Signature]

PRINCIPAL

Kohinoor Arts Commerce & Science College,
Khultabad Aurangabad



All Rights Reserved, No part of this publication may be reproduced, or transmitted, in any form or by any means, electronic mechanical, recording, scanning or otherwise, without the prior written permission of the copyright owner. Responsibility for the facts stated, opinions expressed. Conclusions reached and plagiarism, if any, in this volume is entirely that of the Author. The Publisher bears no responsibility for them. What so ever. Disputes, If any shall be decided by the court at Beed (Maharashtra, India)

Contents**I- Climate change: A global issue -11 - 27**

Introduction: Weather, Climate, Climate Change, Causes of climate change-Carbon dioxide (CO₂), Methane (CH₄), Water vapor (H₂O), Nitrous oxide (N₂O), Chlorofluorocarbons (CFCs), Effects of Climate change, Prevention and control-At individual level, At international level, Instances illustrating impact of climate change on environment, References.

- Prof. Mohammad Hanif

II -Ecosystem and its Restoration 28 - 48

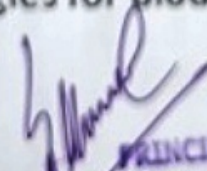
Introduction: Components of an ecosystem, Food Web and Food Chain and Energy flow, Nutrient cycle, Types of Ecosystem, Stability and dynamics of ecosystems, Ecosystem degradation and decline, Need of Ecosystem Restoration and Sustainable Development, References.

- Dr. Tahesinkhan D. Pathan

III -Biodiversity and Conservation 49 - 70

Introduction: Definition, What is biodiversity? Genetic diversity, Species diversity, Ecosystem diversity, Functional Diversity and Evolution of biodiversity. Biogeographic Classification of India-India's Biogeographic Zones; Values of biodiversity- Environmental Value; Social Value, India as a Mega Diversity Nation- Threats to Biodiversity; Endangered and Endemic Species of India; Conservation of Biodiversity- In-situ Conservation, Ex-situ Conservation- Strategies for Biodiversity Conservation.

- Dr. Rafiullah M. Khan


PRINCIPAL
Kohinoor Arts, Comm. & Science College
Khullabad

01

Climate change: A global issue

Mohamad Hanif

Head and Assistant Professor,
Department of Environmental Science,
Kohinoor Arts Commerce and Science College, Khuldabad.

Introduction:

The life found only on the Earth makes it a unique planet. The air has a special place among life supporting system. The air is a mixture of several gases and surrounds the earth from all sides. This gaseous envelop of the Earth is called the atmosphere. The gravitational force of the earth connects the atmosphere to the earth. It prevents the harmful radiation from reaching the earth, stabilizes the temperature necessary for life and thus it acts as a large protective cover. Any forms of life cannot survive on the earth without atmosphere. The atmosphere not only comprises many gases but water vapour and dust particles are also found in the atmosphere. Due to these all kinds of weather and climatic phenomena take place in the atmosphere.

The atmosphere is an integral part of the earth. Generally, maximum of the total amount of weight of the atmosphere is limited upto the height of about 30 kilometres. The gases like Nitrogen, Oxygen, Argon, Carbon dioxide and water vapours etc. together make up the total volume of atmosphere. The atmosphere can be divided into four layers (a) Troposphere (b) Stratosphere (c) Mesosphere (d) Thermosphere.

10

mda,
tate;

Akat

203

Pawar

ism in

- 216

United
minism,
Change
ces.

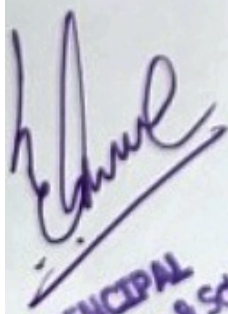
Shaikh

Laws

- 125

aws after
tions and

asarmol

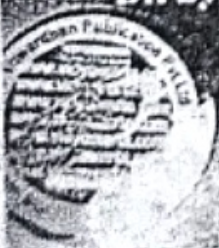


PRINCIPAL
Kohinoor Arts Commerce & Science College
Khuldabad Aurangabad



Recent Studies *On* **CLIMATE CHANGE**

Dr. Rafiullah M. Khan
Dr. Syed Yousuf Hussain



[Signature]
PRINCIPAL
Kohinoor Arts Commerce & Social Sciences College
Khullabad, Hafizabad

Recent Studies on Climate Change

Dr. Rafiullah M. Khan
Dr. Syed Yousuf Hussain



❖ **Publisher :**

Harshwardhan Publication Pvt.Ltd.
Limbaganesh, Dist. Beed (Maharashtra)
Pin-431126, vidyawarta@gmail.com

❖ **Printed by :**

Harshwardhan Publication Pvt.Ltd.
Limbaganesh, Dist. Beed, Pin-431126
www.vidyawarta.com

❖ **Page design & Cover :**

H.P. Office (Source by Google)

❖ **Edition: Nov. 2021**

ISBN 978-93-92584-41-1

❖ **Price : 200/-**

Signature

PRINCIPAL

Khatam Art's Commerce & Science College
Khatam Aurangabad



All Rights Reserved, No part of this publication may be reproduced, or transmitted, in any form or by any means, electronic mechanical, recording, scanning or otherwise, without the prior written permission of the copyright owner. Responsibility for the facts stated, opinions expressed. Conclusions reached and plagiarism, If any, in this volume is entirely that of the Author. The Publisher bears no responsibility for them. What so ever. Disputes, If any shall be decided by the court at Beed (Maharashtra, India)

Recent Studies on Climate Change



8

IV -Water Pollution; Causes; Effects and Control - 71 - 100

Introduction: Main Sources of water, Demand for water; water pollution; physical and chemical pollution of water, Parameters of water pollution, Effects of water pollution water pollution due to industries, Effects of Metal water pollutants, Measures to control water Pollution; Rain water harvesting Aquifer recharge, Reusing the waste water, New irrigation methods, People's participation to control water pollution and enforcement of laws.

- Dr. Prashant U. Terker

V -Air Pollution: Causes, Effect and Solutions - 101 - 108

Introduction: Various Causes of Air pollution, **Agricultural Activities, various chemical and synthetic products.** Effects of Air Pollution- Respiratory and Heart Problems, Child Health Problems, Global Warming, Acid Rain, Eutrophication, Effect on Wildlife, Ozone Layer depletion. Solutions: Mass Transportation, Good Household Practices, Energy conservation, Reduce, Reuse and Recycle, Renewable Energy Resources, Use Energy-Efficient Devices, References.

- Dr. Syed Abdul Aziz

VI -Environmental Diseases - 109 - 127

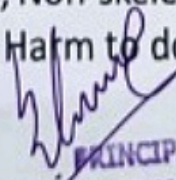
Introduction: Adverse effect of UV, Pollution related Disease, Diseases through polluted air, Diseases through to polluted water, Diseases due to Other Biological agents of environment, References

- Dr. TahesinkhanD. Pathan

VII -Fluoride: An Acute Toxin -128 - 141

Introduction: Atmospheric pollution from industry emissions, Impact of fluoride on health, Dental fluorosis, Skeletal fluorosis, Non-skeletal fluorosis, Harm to plants, Harm to wild animals, Harm to domestic animals, References

- Dr. Syed Yousuf Hussain


PRINCIPAL
Jhinoor Arts Commerce & Science College
Khulabad Aurangabad

05

Air Pollution: Causes, Effect and Solutions

Dr. Syed Abdul Aziz M.

Assistant Professor and Head

Department of Economics

Kohinoor Arts, Commerce and Science College Khuldabad

Introduction

Pollution is well known now a days and everyone come to know about it through the media. Air pollution is one of the forms that refers to the contamination of the air, irrespective of indoors or outside.

A physical, biological or chemical alteration to the air in the atmosphere can be termed as pollution. It occurs when any harmful gases, dust, smoke enters into the atmosphere and makes it difficult for plants, animals, and humans to survive as the air becomes dirty.

Air pollution refers to the release of pollutants into the air pollutants which are detrimental to human health and the planet as a whole. According to the World Health Organization (WHO), each year air pollution is responsible for nearly seven million deaths around the globe.

Certain gases in the atmosphere can cause air pollution. For example, in cities, a gas called ozone is a major cause of air pollution. Ozone is also a greenhouse gas that can be both good and bad for our environment. It all depends where it is in Earth's atmosphere.

100

Recent Studies on Climate Change

- Chemistry Of Green Environment by M. M. Srivasta and Rashmi Sanghi
- A textbook of Environmental Studies by G. R. Chatwal and Harish Sharma
- Agricultural and Water Management by Sandeep Saxena
- Climate change and Agriculture over India by Prasada Rao and others
- Environmental pollution and Hazards by L.R. PoderPatro and R.L. Panigrahy
- Environmental Science by Richard T. Wright
- A text book of Environmental Science by V. Subramanian
- Water pollution ; causes, effects and control by P.K. Goel
- Water Pollutions by Rupam Kumar Panjali
- Water wars by Vandana Shiva
- Environmental Water Pollution by P. N. Prasad
- Water Pollution Biology by P.D. Abel
- Fundamentals of Air and Water pollution by P.C. Mishra
- Water pollution and control by Anil Goel
- Water pollution causes effects and solutions by Dr. Luxmy Begum
- Environmental pollution and their biomedical Approches by Ram Naresh Bhargava
- Engineering and Gneral Geology by Parbin Singh

□□□

[Signature]

Kohinoor Arts, Commerce & Science College
Khuldabad, Maharashtra

Dr. Rafiq Raza and Patwar AL-
Bakht Chashm-12 2021-22



On CLIMATE CHANGE

Dr. Rafiqullah M. Khan
Dr. Syed Yousuf Hussain



[Signature]

PRINCIPAL
Kollinor Arts Commerce & Science College
Khutabhd Aurangabad

Recent Studies on Climate Change

C Dr. Rafiullah M. Khan
Dr. Syed Yousuf Hussain



❖ Publisher :

Harshwardhan Publication Pvt.Ltd.
Limbaganesh, Dist. Beed (Maharashtra)
Pin-431126, vidyawarta@gmail.com

❖ Printed by :

Harshwardhan Publication Pvt.Ltd.
Limbaganesh, Dist. Beed, Pin-431126
www.vidyawarta.com

❖ Page design & Cover :

H.P. Office (Source by Google)

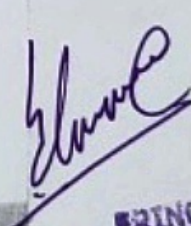
❖ Edition: Nov. 2021

ISBN 978-93-92584-41-1

❖ Price : 200/-



All Rights Reserved, No part of this publication may be reproduced, or transmitted, in any form or by any means, electronic mechanical, recording, scanning or otherwise, without the prior written permission of the copyright owner. Responsibility for the facts stated, opinions expressed. Conclusions reached and plagiarism, If any, in this volume is entirely that of the Author. The Publisher bears no responsibility for them. What so ever Disputes, If any shall be decided by the court at Beed (Maharashtra, India)


PRINCIPAL
Kohinoor Arts Commerce & Science College
Khulabab Aurangabad



Recent Studies on Climate Change

10

Neurotransmitters-Glutamate, Receptors Of Type Nmda, Gaba-Gaba Receptors, Glycine- Glycine Receptor, Aspartate; Conclusion; Acknowledgements, References.

- Prof. Ganesh B. Akat

XII -Microbes and Mind: A Review

- 198 - 203

- Dr. M. K. Rakhonde & Dr. A. L. Pawar

XIII -Theme of Climate Change and Eco-feminism in Margaret Atwood's Novel The Handmaid's Tale

- 204 - 216

Introduction: Climate Change, According to United Nations, NASA's definition of climate change. Eco-feminism, Margaret Atwood: Life and Works, Theme of Climate Change and Eco-feminism in The Handmaid's Tale; References.

- Prof. Laikh M. Shaikh

XIV -Climate Change in context to Environmental Laws

- 217 - 125

Introduction: Laws before independence, Laws after independence- Ozone Depleting Substances (Regulations and control) rules, 2000; Conclusion, References.

- Prof. Sandip B. Awasarmol



PRINCIPAL
Kholinor Arts Commerce & Science C.
Khultabad Aurangabad

Kramer & Bressan, 2015; Sender, Fuchs, & Milo, 2016). All of these species are part of the microbiome and include fungi as well as contagions and archaea. The most significant of them is bacteria, which has been found to have an impact on nearly every area of human life, according to current research (Anderson, Cryan, & Dinan, 2017). Mood, cognition, social connections, brain development, and brain illnesses are all influenced by microorganisms. This review explains how. In an interdisciplinary challenge, natural and clinical scientists have seeded this new exploration region with care, and cerebral scientists have a critical role to play in building up the soil — both theoretically and experimentally speaking.

Endocrine cells in the stomach interact with microbes to produce neuroactive substances and peptides. The vagus nerve, which sends signals to the brain, is stimulated by these chemicals. A part of the unconscious system that regulates behaviour is the gut microbiome, which contains bacteria. Microbes have a profound impact on cognitive and behavioural habits. Microbes are everywhere. It's possible that altering the gut microbiome can harm mental health. Psychobiotics are probiotics that have the potential to benefit mental well-being as well as overall health. Gut bacteria may either protect us against disease or put us at risk for it, according to research on inflammation, diabetes, and obesity. A considerable amount of studies reveals they can even influence our moods and behaviour, no matter how far-fetched that may appear. Microbes are a hot scientific issue right now. A increasing amount of evidence shows a connection between gut microbiota and a variety of health problems, both digestive and non-gastrointestinal. Many mental illnesses, such as anxiety and depression, have been linked to dysbiosis and gut inflammation, which are prevalent in today's society. There are hundreds of neurochemicals that are produced by gut bacteria, and the brain uses them to govern fundamental

Microbes and Mind: A Review

Rakhonde MK¹ and Pawar AI²

Department of Psychology¹ & Microbiology²

Kohinoor Art's Commerce and Science College Khultabad

District Aurangabad (MS)

Abstract

The microbiome is a term used to describe the community of bacteria that live on and in humans. Among these microorganisms, bacteria are the most prevalent and are now widely acknowledged to be crucial to nearly every element of human functioning. Using affective science and mood beyond health to analyze the interaction between germs and the mind is the topic of this essay. Scientists outside of psychology have conducted most of the research to far on the connections between microbes and humans. Several of these researchers are experts in their fields. This review aims to present several points of view on the microbiome in order to add to the already vast, interdisciplinary endeavor to understand the connection between bacteria and the mind in general.

Keywords: Microbiome, microbes, emotion, social ties, and health.

Introduction

However, the term of "body" has to be broadened to take into account the 10 trillion microorganisms that live and thrive within individuals (Blascovich & Mendes, 2010). (P.



Principal
Kohinoor Art's Commerce & Science College
Khultabad, Aurangabad, MS

आधुनिक हिन्दी कविता में राष्ट्रीय चेतना

2021-2022

Dr. Jitendra

संपादक
डॉ. माधुरी पाण्डेय गर्ग



© संपादक

पहला संस्करण : 2022

ISBN : 978-93-90868-03-2



नमन प्रकाशन

4231/1, अंसारी रोड, दरियागंज,

नई दिल्ली-110002

फोन: 8750551515, 8595352540

PRINCIPAL
Kohinoor Arts Commerce & Science College
Khulatabad Auringabad

श्री नितिन गार्ग द्वारा नमन प्रकाशन के लिए प्रकाशित तथा
एशियन ऑफसेट प्रिंटर्स, मौजपुर, शाहदरा, दिल्ली में मुद्रित।

Adhunik Hindi Kavita Mein Rashtriya Chetna
By Ed. Madhuri Garg



34. “हिंदी साहित्य की आधुनिक काल में राष्ट्रीय चेतना”
डॉ. बसुन्धरा गुप्ता 248
35. छायावादी कवि निराला का राष्ट्रीय चेतना में योगदान
डॉ. मीनाक्षी खरे 256
36. युग प्रवर्तक जयशंकर प्रसाद
डॉ. वसुन्धरा उपाध्याय 260
37. राष्ट्रीय चेतना का प्रतीक : ‘जिस लाहौर नई
देख्या ओ जम्याई नई’
डॉ. रज़िया शहेनाज़ शे. अब्दुल्ला 266
38. द्विवेदी युगीन काव्य में राष्ट्रीय एकता का स्वर
डॉ. एलिसबत जॉर्ज 273
39. सामाजिक-राजनैतिक विसंगतियों का जीवन्त दस्तावेज पटकथा
डॉ. ऋतु वाष्णीय गुप्ता 278
40. आधुनिक काल के राष्ट्रीय चेतना के प्रमुख कवि
डॉ. श्रीमती धनेश्वरी दुबे 286
41. प्रसाद की राष्ट्रीय चेतना
डॉ. मोहित वर्मा 294
42. जयशंकर प्रसाद के काव्य में राष्ट्रीय चेतना
डॉ. सुभाष सोनाजी जिते 300



42.

जयशंकर प्रसाद के काव्य में राष्ट्रीय चेतना

डॉ. सुभाष सोनाजी जिते

हिंदी विभागाध्यक्ष कोहिनूर महाविद्यालय,
खुलताबाद, जिल्हा, औरंगाबाद.

दूरभाष : 9403628665

E-mail : sarang96917@gamil.com

राष्ट्रकवि मैथिलीशरण गुप्त द्विवेदी युग के सर्वाधिक लोकप्रिय कवी हैं। उनके काव्य में द्विवेदी युगीन समाजसुधार की भावना, राष्ट्रीय भावना, जनजागरण की प्रवृत्ति एवं युगबोध विद्यमान है। गुप्तजी ने गुरुदेव रविंद्रनाथ टैगोर की मानवतावाद से प्रभावित होकर करुणा, त्याग आदि के गीत गाए और गांधीवाद का प्रभाव ग्रहण करके सांप्रदायिक एकता, सत्य और अहिंसा का प्रतिपादन किया। मैथिलीशरण गुप्त की रचना 'भारत-भारती' सन 1942 में प्रकाशित हुई। भारत-भारती अपने राष्ट्रीय भावनाओं को जागृत करने में महत्वपूर्ण अलिनीत किया। इस काव्य रचना में भारत की पराधीनता की बेड़ियाँ तोड़ने का आवाहन किया गया। जिस समय में भारत का स्वतंत्रता आंदोलन अपने पूरे जोर पर था उस समय गुप्तजी ने अपनी काव्य रचना 'भारत-भारती' लिखकर भारतीय जनमानस के सम्मुख उसके अति, वर्तमान और भविष्य का ऐसा सुंदर चित्रण प्रस्तुत किया की नवयुवक अपना सर्वस्व न्यौछावर करने के लिए स्वतंत्रता आंदोलन में कूदने लगे। विषयवस्तु की भूमिका पर यदि गुप्त जी के काव्य को परखा जाए तो यह स्पष्ट होता है की, उनका काव्य धर्म-संस्कृति, इतिहास, पुराण, महाभारत और रामायण के प्रसंगों पर आधारित नवीन उद्भावनाओं मुक्त पुनरुत्थान की प्रवृत्ति से प्रेरित एवं परिचालित है। इतना ही नहीं उसमें समसामयिक भावों विचारों को आधार बनाकर लिखी गई रचनाएँ भी राष्ट्रीयता से पड़ी हैं।

300 / आधुनिक हिन्दी कविता में राष्ट्रीय चेतना


PRINCIPAL
Kohinoor Arts Commerce
Khulatabad Aur

आधुनिक हिन्दी कविता में राष्ट्रीय चेतना

2021-2022

Dr. Lahane

Handwritten signature

PRINCIPAL
Director Arts, Commerce & Science College
M. J. Somaiya Institute of Technology & Science

संपादक

डॉ. माधुरी पाण्डेय वर्मा



© संपादक

पहला संस्करण : 2022

ISBN : 978-93-90868-03-2



नमन प्रकाशन

4231/1, अंसारी रोड, दरियागंज,

नई दिल्ली-110002

फोन: 8750551515, 8595352540


PRINCIPAL
Kohinoor Arts Commerce & Science College
Khultabad Aurangabad

श्री नितिन गर्ग द्वारा नमन प्रकाशन के लिए प्रकाशित तथा
एशियन ऑफसेट प्रिंटर्स, मौजपुर, शाहदरा, दिल्ली में मुद्रित।

Adhunik Hindi Kavita Mein Rashtriya Chetna
By Ed. Madhuri Garg



9. राष्ट्रकवि रामधारी सिंह 'दिनकर' के काव्य में राष्ट्रीय चेतना 80
प्रा. रत्नमाला धारबा धुळे (वानखेडे)
- ✓ 10. जयशंकर प्रसाद के काव्य में राष्ट्रीय चेतना 85
स.प्रा. प्रकाश आनंदा लहाने
11. हिंदी साहित्य में विभिन्न रचनाकारों की 88
रचनाओं में राष्ट्रीय चेतना
डॉ. शिंदे मालती धोंडो पन्त
12. दुष्यंत कुमार के "जलते हुए वन का वसंत" में 99
अभिव्यक्त राष्ट्रीय चेतना
रंजिनी जी नायर
13. राष्ट्रीय चेतना के संवाहक : कवि निराला 106
अन्जू सी
14. "द्विवेदी युगीन साहित्य में राष्ट्रीय चेतना" 109
डॉ. शेखर घुंगरवार
15. राष्ट्रीय चेतना के परिप्रेक्ष्य में आचार्य विद्यासागर की कविता 114
डॉ. बारेलाल जैन
16. आधुनिक काल में राष्ट्रीय चेतना 121
डॉ.रामगोपाल सिंह / श्रीमती अनीता सिंह बघेल
17. 'प्रेमचंद के उपन्यासों में राष्ट्रीयता' 126
डॉ. सुमन अग्रवाल
18. मैथिलीशरण गुप्त की कविताओं में राष्ट्रीय चेतना 133
डॉ. आशा रानी
19. राष्ट्रीय एकता का दूसरा नाम 'दिनकर' 145
डॉ. मजिदाएम
20. सूर्यकांत त्रिपाठी निराला के काव्य में राष्ट्रीय चेतना 151
डॉ. पुष्पा रानी

PRINCIPAL
Khinor Arts Commerce & Science
Khulabad Aurangabad



10.

जयशंकर प्रसाद के काव्य में राष्ट्रीय चेतना

स.प्रा. प्रकाश आनंदा लहाने
हिंदी विभाग कोहिनूर महाविद्यालय,
खुलताबाद, जिल्हा, औरंगाबाद
दुरभाष : 8007049362

प्रसाद जी की व्यापक राष्ट्रीय सांस्कृतिक चेतना विश्वमंगल भाव से युक्त थी। उत्पीड़न के विरोध में थे। ठठठों से क्षुब्ध थे। विषमतारहित समाज की भी कर्म, चेतना, संघर्ष एकता जैसे तत्त्व है जिनका महत्त्व राष्ट्रीय आंदोलन के लिए था। हिंदुस्थान की कहानी में पंडित जवाहरलाल नेहरू ने कहा था। “राष्ट्रीयता एक गहरा और मजबूत आदर्श है।” मौजीनी की माने तो शिक्षा, स्वदेश और स्वराज्य राष्ट्रीयता के तीन प्रधान स्तंभ है। जो राष्ट्र के हित के है। वही व्यक्ति का हित है। स्वदेशी, स्वराज्य, और राष्ट्रहित की भावना राष्ट्रीयता कहलाता है। किसी भी राष्ट्र के चरित्र में अधपतन के सबसे प्रबल कारणों में से एक कारण उस राष्ट्र का विदेशी शासन के लिए विभिन्न विद्वानों चिंतकोने समयसमय पर अपना योगदान दिया है। प्रसाद जी ने भी आने युग की राष्ट्रीय भावनाओंको प्रतिबिंबित किया है।¹ प्रेम पथिक (1910) से कामायनी (1936) तक प्रसादजीके रचनाकाल के अध्ययन से हम पाते है की, उनमें राष्ट्रीय चेतना और आधुनिक भावबोध कुट कुट भरे थे।

“बात कुछ धिपी हुई है गहरी,
मधुर है स्रोत मधुर है लहरी।”

प्रसाद जी के काव्य में हमे नवीन भावबोध के साथ साथ स्वाधिनता की चेतना, सुक्ष्म कल्पना, लाक्षणिकता एवं नए प्रकार का सौंदर्य बोध मिलता है। केवल

आधुनिक हिन्दी कविता में राष्ट्रीय चेतना / 85

PRINCIPAL
Kohinor Arts Commerce & Science Co.
Khultabad Aurangabad