

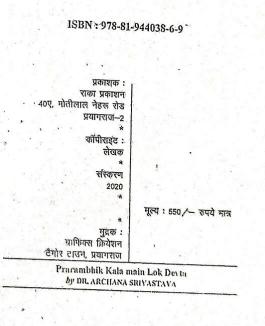


(A Constituent P.G. College, University of Allahabad)
Under the Strengthening Component of DBT Star College Scheme

Website: www.cmpcollege.ac.in

### 2020







# चौधरी महादेव प्रसाद महाविद्यालय

### C. M. P. DEGREE COLLEGE



(A Constituent P.G. College, University of Allahabad)

Under the Strengthening Component of DBT Star College Scheme

Website: www.cmpcollege.ac.in



### Pesticides in Crop Production: Physiological and Biochemical

Editor(s): Prabhat Kumar Srivastava, <u>Vijay Pratap Singh,</u> Anita Singh, Durgesh Kumar Tripathi, Samiksha Singh, Sheo Mohan Prasad, Devendra Kumar Chauhan

First published: 14 February 2020

Print ISBN: 9781119432197 | Online ISBN: 9781119432241 | DOI: 10.1002/9781119432241

© 2020 John Wiley & Sons Ltd

#### About this book

A guide to the diversity of pesticides used in modern agricultural practices, and the relevant social

Pesticides in Crop Production offers an important resource that explores pesticide action in plants; pesticide metabolism in soil microbes, plants and animals; ... Show all

#### Table of Contents

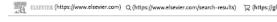
\*\* Export Citation(s)

⊕ Free Access

Front Matter (Pages: i-xx)

Summary PDF Request permissions

Vijay Pratap Singh



- > Agricultural and Biological Sciences (filfe-sciences/agricultural-and-biological-sciences)
  > Books (filfe-sciences/agricultural-and-biological-sciences/books) > Plant Life under Changing Environment

COVID-19 Update: We are currently shipping orders daily. However, due to transit disruptions in some geographies, deliveries may be delayed. To provide all customers with timely access to content, we are offering 50% off Science and Technology Print & eBook bundle options. Terms & conditions. (https://www.elsevier.com/books-and-journals/special-



#### Plant Life under Changing Environment

1st Edition

Responses and Management

direct.com/science/book/9780128182048)



Editors: Durgesh Kumar Tripathi, Vijay Pratap Singh, Shivesh Sharma, Sheo Prasad, Nawal Kishore Dubey,

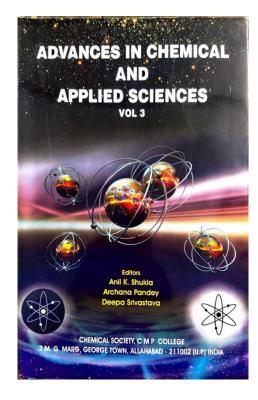
Paperback ISBN: 9780128182048 eBook ISBN: 9780128182055

Imprint: Academic Press

Published Date: 8th April 2020

Page Count: 1012

United States of America Sales tax will be calculated at check-out



#### ADVANCES IN CHEMICAL AND **APPLIED SCIENCES**

Vol 3

Editors Anil K. Shukla **Archana Pandey** Deepa Srivastava

CHEMICAL SOCIETY, C M P COLLEGE 2 M. G. MARG, GEORGE TOWN, PRAYAGRAJ - 211002





(A Constituent P.G. College, University of Allahabad)

Under the Strengthening Component of DBT Star College Scheme

Website: www.cmpcollege.ac.in

#### Advances in Chemical and Applied Sciences - Vol 3

ISBN - 978-93-88018-19-7

Dr. Anil K. Shukla Dr. Archana Pandey Dr. Deepa Srivastav

Associate Editors: Dr. Sunanda Das

Dr. Roli Srivastava Dr. Babita Agrawal Dr. Santosh K. Srivastava

Dr. Arti Gupta

Dr. Mridula Tripathi Dr. Praveen Tripathi Dr. Deepanjali Pandey

Dr. Pramod Kumar

Miss. Himani Chauresia

First Edition: 2020 Price: 600/-

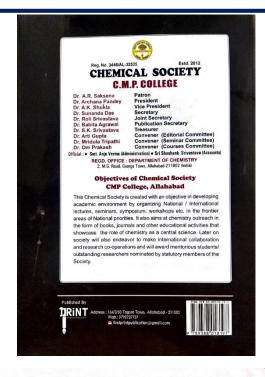
@ : Editors

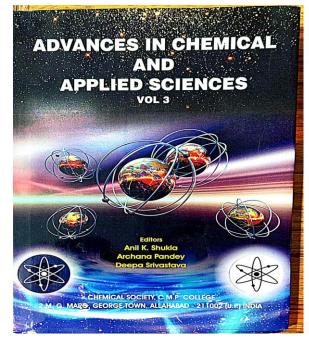
The responsibility for facts stated, opinion expressed or conclusions reached and plagtarism, if any this book is entirely that of the Author. The Publisher / Editors / Editorial Board bears no

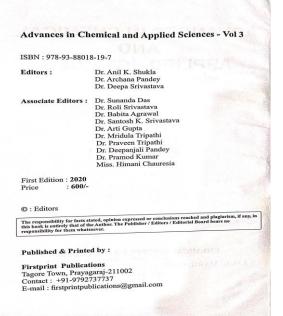
Published & Printed by:

Firstprint Publications

Firstprint Publications
Tagore Town, Prayagaraj-211002
Contact: +91-9792737737
E-mail: firstprintpublications@gmail.com











(A Constituent P.G. College, University of Allahabad)

Under the Strengthening Component of DBT Star College Scheme

Website: www.cmpcollege.ac.in

#### Contents

1.		1
	Preeti Singh and Satish Awasthi Biohybrid Artificial Organs	
2.	Roli Srivastava	10
3.	Few Physical Properties of Binary Organic Analogue of Nonmetal-Nonmetal	
	Eutectic System	21
4.	Ionic Liquid	24
4.	Arti Gunta	
5.	S. B I amount and Midlet Superstand	
6.	Arsenic Poisoning: Toxicity, Symptoms and Treatment	35
0.	Santosh Kumar Srivastava	
7.	Sustainable Methods and Approaches Towards the Synthesis of Flavonoids  Preeti Gupta and Manoj Dhameja	41
	Dye Sensitized Solar Cells- Approach to Clean Energy	.66
8.		
	Mridula Tripathi, Arti Srivastava, Priyanka Chawla and Abha Tripathi	71
9.	Mridula Tripathi, Arti Srivastava, Priyanka Chawitama Aonu Tripum Ruthenium (III) Uses in Medicinal Chemistry Rahul Kanaoujiya and Shekhar Srivastava	
10	Rahul Kanaoujiya and Shekhar Shvastava Groundwater Recharge and Discharge in Wetlands: A Brief Overview	77
11.		.84
12.	Energy Transfer and Ecological Efficiency	
12	No. 11 Applications of Metal Nanoparticles	. 31
13.	Dipiti Porwal, Jitendra Kumar and Krishna Srivastava	
14	Dipiti Porwal, Jitendra Kumar and Krisina Srivasiava  Gymnema sylvestre - A Potential Herbal Cure of Diabetes Mellitus	.100
***	Babita Agrawal Protection	114
15.	Criepr Cas-9 Technology For Phytoremediation and Environmental Processing	
	Sarita Srivastava	.121
16.	Novel Methods of Extraction of Gingerol	
	Reena S. Lawrence	.128
17	Reena S. Lowrence Sheep Milk Oligosaccharides: Isolation & Characterization	
. / .	Arbok Kr Ranjan	.139
10	Ashok Kr. Ranjan In New World Some Alternative Sources of Food	
18.	Dr. Alok Malviya	
	Dr. Alox marrys	

res in Chemical and Applied Sciences - Vol 3 : Antl. K. Shukla, Archana Panday, Deepa Srivastav : 978-93-88018-19-7 2020

#### Gymnema sylvestre - A Potential Herbal Cure of Diabetes Mellitus

Babita Agrawal

#### Introduction

Introduction

Diabetes mellitus is a cluster of inter-related metabolic syndrous symbolized by hyperglycemia and carbohydrate, lipid and protein metabolic disorders which ultimately results in defects in either in the secretion of insulin action or both '. Diabetes mellitus is a common disorder among the Indian population. It is estimated that diabetes would affect approximately 37 million people by the year 2025. WHO reported that approximately 171 million people were worldwide suffering from diabetes in 2000 and the prevalences projected to 366 million by 2030.

Therapeutic options for diabetes are diet, exercise and o hypoglycemic drugs. Plant drugs are frequently considered to be less toxic free from side effects than synthetic one. The modern pharmacopoeia contain least 2.5% of plant-derived drugs. Ayurveda of the Atharva Veda enlists the us and efficacy of herbal formulations in the healing of diabetes.

Gymnema sylvestre is one of the natural herb [Figure 1.] that has been extensively used in traditional medicine for almost two thousand year. Gymnema sylvestre is popularly known as gurmar and madhunashini a perennial woody wine that found in tropical areas of India, Australia and Africa as well as in Asia, Malaysia, Japan, Vietnam and Sri Lanka.

as well as in Asia, Malaysia, Japan, Vietnam and Sri Lanka.

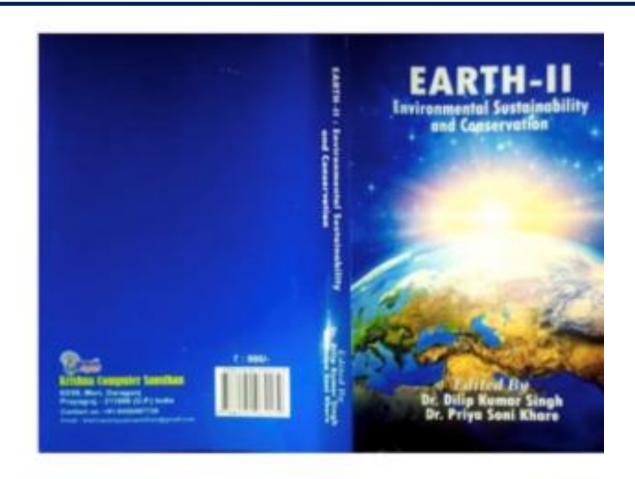
The main parts of Gymnema sylvestre plant used for hetal preparations are its leaves and roots. The leaves are used mostly a hypoglycemic, hypolipidemic, antiviral, diuretic, anti-allergic, antibiotic, antianalgesic, and anti-rheumatic agents. It may help to fight sugar craving sau lower high blood sugar levels. The plant may also play a beneficial not in diabetes treatment, as it may help stimulate insulin secretion and the regeneration of pancreas islet cells, both of which can help lower blood sugar.

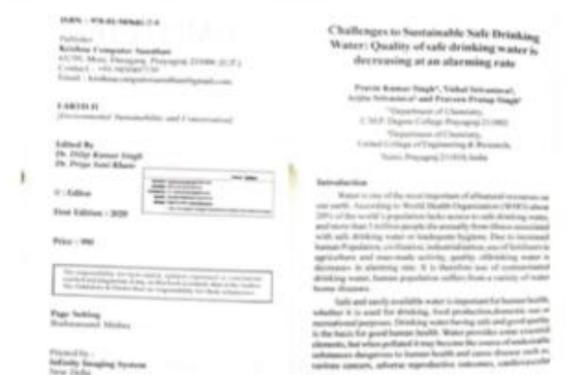
Department of Chemistry, CMP Degree College (A constituent PG College of University of Allahabad) Prayagraj (U. P.) India E-mail : babitaprashantagrawal@gmail.com





(A Constituent P.G. College, University of Allahabad)
Under the Strengthening Component of DBT Star College Scheme

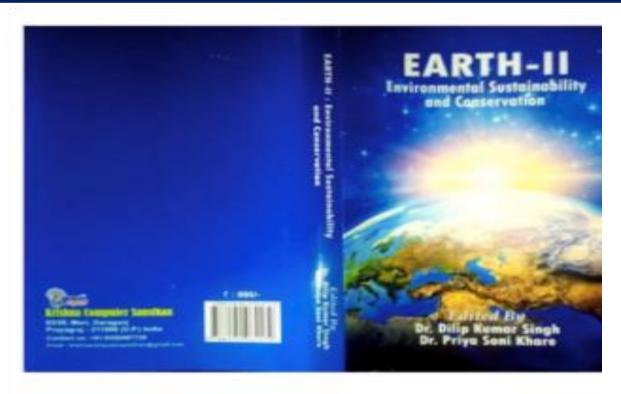








(A Constituent P.G. College, University of Allahabad)
Under the Strengthening Component of DBT Star College Scheme

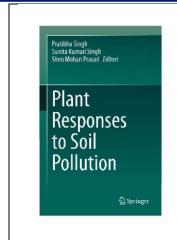


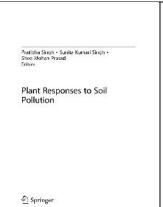
Charter of the second contract of the contract	Challenges to Sorrainable Safe Drinking Water: Quality of safe drinking water is decreasing at an alarming rate  Freit Konor Suph", Valuation Straig Single Straight Science Sough Straight Stra
Print State State	Transcription (Control of the Control of the Contro
Figure Sections	dicease. In electric title 15 in the other sec of compensated districting mater. Sames propolation collect from a ratios; of water from a





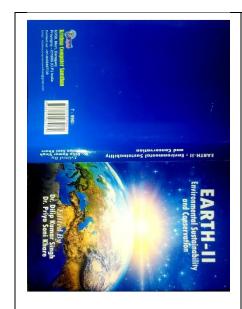
(A Constituent P.G. College, University of Allahabad)
Under the Strengthening Component of DBT Star College Scheme

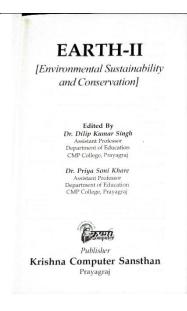


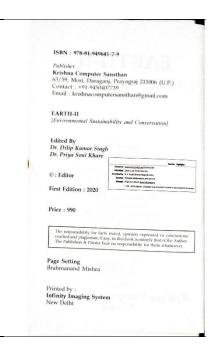
















(A Constituent P.G. College, University of Allahabad)

Under the Strengthening Component of DBT Star College Scheme

Website: www.cmpcollege.ac.in

#### **Editorial Board**

Dr. Neeta Sinha

Associate Professor Department of Education CMP College, Prayagraj

Dr. Sangeeta Associate Professo Department of Education CMP College, Prayagraj

Dr S.P. Verma Associate Professor
Department of A.H. & Diary
Science
Kulbhaskar Ashram PG collegePrayagraj

Dr. Dinesh Singh ssistant Director/Assistant Professor School of Education UPRTOU, Prayagraj

Dr. PrateekUpadhyay Department of Teacher Education K.N.Government P.G. College Gyanpur, Bhadohi Dr. Abha Singh

Associate Professor Department of Education CMP College, Prayagraj

Srivastava Associate Professor Department of Chemistry CMP College, Prayagraj

Dr. Vidyapati Prayagraj

Dr. RuchiDubey Assistant Profesor Department of Education University of Allahabad, Prayagraj

Dr. PravinKumar Singh Assistant Professor Department of Chemistry CMP College, Prayagraj

Challenges to Sustainable Safe Drinking Water: Quality of safe drinking water is decreasing at an alarming rate

Pravin Kumar Singh\*, Vishal Srivastava<sup>§</sup>, Arjita Srivastava<sup>§</sup> and Praveen Pratap Singh<sup>§</sup>

\*Department of Chemistry, C.M.P. Degree College Prayagraj-211002 \*Department of Chemistry, United College of Engineering & Research, Naini, Pravagrai 211010, India

Water is one of the most important of all natural resources or Water is one of the most important of all natural resources on our earth. According to World Health Organization (WHO) about 20% of the world's population lacks access to safe drinking water, and more than 5 million people die annually from illness associated with safe drinking water or inadequate hygiene. Due to increased human Population, civilization, industrialization, use of fertilizers in agriculture and man-made activity, quality ofdiniking water is decreases in allarming rate. It is therefore use of contaminated drinking water, human population suffers from a variety of water between diseases.

Safe and easily available water is important for human health, Safe and easily available water's important for human means, whether it is used for drinking, food production/domestic use or recreational purposes. Drinking water having safe and good quality is the basis for good human health. Water provides some essential elements, but when polluted it may become the source of undesirable substances dangerous to human health and cause disease such as, various cancers, adverse reproductive outcomes, cardiovascular

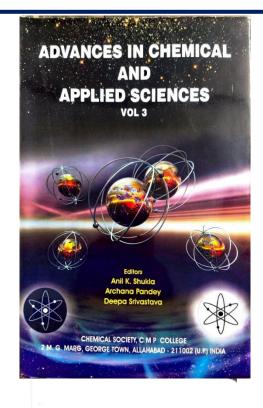




(A Constituent P.G. College, University of Allahabad)

Under the Strengthening Component of DBT Star College Scheme

Website: www.cmpcollege.ac.in



#### ADVANCES IN CHEMICAL AND **APPLIED SCIENCES**

Vol 3

Editors Anil K. Shukla **Archana Pandey** Deepa Srivastava

CHEMICAL SOCIETY, C M P COLLEGE (Regd. No. 3446/AL-32535)
2 M. G. MARG, GEORGE TOWN, PRAYAGRAJ - 211002

#### Advances in Chemical and Applied Sciences - Vol 3

ISBN: 978-93-88018-19-7

Editors:

Dr. Anil K. Shukla Dr. Archana Pandey Dr. Deepa Srivastava

Associate Editors: Dr. Sunanda Das

Dr. Roli Srivastava Dr. Babita Agrawal Dr. Santosh K. Srivastava

Dr Arti Gunta

Dr. Arti Gupta Dr. Mridula Tripathi Dr. Praveen Tripathi Dr. Deepanjali Pandey

Dr. Pramod Kumar Miss. Himani Chauresia

First Edition: 2020

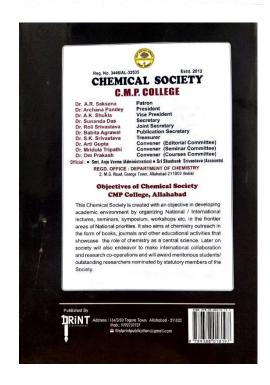
@ : Editors

The responsibility for facts stated, opinion expressed or conclusions reached and plagiarism, if say this book is entirely that of the Author. The Publisher / Editors / Editorial Board bears no

#### Published & Printed by:

Firstprint Publications

Tagore Town, Prayagaraj-211002 Contact: +91-9792737737 E-mail: firstprintpublications@gmail.com



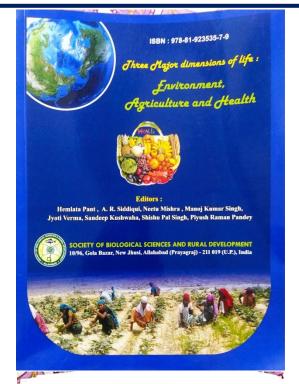




(A Constituent P.G. College, University of Allahabad)

Under the Strengthening Component of DBT Star College Scheme

Website: www.cmpcollege.ac.in



S	N. Content	Page No
21.	THE PROPERTY OF THE PROPERTY O	
21.	Pratyush Pandey	115-11
22.	INDICES OF AGRICULTURAL SUSTAINABILITY	118-120
-	Shiy Prasad Vishwakarma	110-120
23.	IMMUNOMODULATORY ACTIVITY OF MADRICA LONGIFOLIA	121-12
	Santosh Kumar Singh, Upasana Singh and Satish Kumar Verma	741112
24.	PROCESSING AND PACKAGING OF VEGETABLES	124-129
	Vinita Singh and Sadhana Vaish	
25.	CERTAIN FUNGAL DISEASES OF PLANTS BELONG TO CUCURBITACEAE FAMILY	129-131
	Pallavi Rai and Priva Singh	0.0000.000
26.	IMPORTANCE AND HIGHER SCOPE OF STAR ANISE SPICE FOR WEST KAMENG	134-136
	T. S. Mishra, N. K. Mishra and H. M. Singh	
27.	ORGANIC FARMING IN INDIAN AGRICULTURE	137-139
	Vandana Mathur	
28.	USE AND IMPORTANCE OF BIO FARTILIZER	140-141
	Navneet Kumar Mishra, T. S. Mishra, and H.M. Singh	
29.	ROLE OF AGRICLINICS AND AGRIBUSINESS IN INDIAN AGRICULTURE	142-144
	Pradeep Kumar, Vinay Kumar and Ram Jeet	
30.	EFFICACY OF DESERT MADAR - CALOTROPIS PROCERA	145-146
	Chetan D. Thakur and K. S. Dahiya	
31.	ROLE OF PLANTS TO BEAT COVID-19	147-148
	Varsha Jaiswal	
32.	ZERO BUDGET NATURAL FARMING	149-150
	Ashutosh Mishra	
33.	HAEMOPHILIA: A BLEEDING DISORDER	151-153
	Uma Rani Agrawal	
14.	TOXICITY, MECHANISM AND HEALTH EFFECTS OF CADMIUM (Cd)	154-163
	Kavita Verma, Nikunaj Bhardwaj, Hina Qamar, Dushyant Kumar Chauhan and Divya Singh	
5.	NUTRITION AND WEIGHT CONTROL DIET	164-171
	Sadhana Vaish and Vinite Singh	
6.	CHEMICAL PESTICIDES USE IN AGRICULTURE: CAUSE HAZARDOUS	172-180
	Amar Bahadur	
7. 1	LASODA: A POTENTIAL FRUIT WITH IMMENSE PHARMACOLOGICAL PROPERTIES	181-183
1	Deepmala Gupta	
8. 1	ROLE OF HEALTH, HYGIENE AND SANITATION IN MANAGEMENT OF PANDEMICS	184-186
1	Prachi Srivastava	
9. 1	IMPORTANCE OF FRUITS AND VEGETABLES IN HUMAN NUTRITION	187-192
	Arti Sharma and Neeraj Gupta	
0.	SYNTHESIS AND CHARACTERIZATION OF CROSS-LINKED GRAFT COPOLYMER	193-199
	Arti Srivastava, Rajesh Kumar, Mridula Triputhi, and Savitri Dewangan	
1. 1	MECHANISM OF ACTION AND CHEMISTRY OF SANITIZERS AND DISINFECTANT	200-204
	Archana Pandey and Roli Srivastava	

ISBN: 978-81-923535-7-9

November, 2020, SBSRD, Prayagraj, U.P., India

Society of Biological Sciences and Rural Development Published by :

Prayagraj, U.P., India sbsrdallahabad@gmail.com

panthemlata8@gmail.com

Website www.sbsrd.org

For information on the availability of this publication, Please write to:

Secretary

Society of Biological Sciences and Rural Development 10/96, Gola Bazar, New Jhusi, Prayagraj-211019, (U.P.), India.

Mobile: +91 8005 321 428, 9335 153 392

All rights reserved @ 2020 Society of Biological Sciences and Rural Development

Price : ₹2000/- for Indian and \$ 125/- for abroad

of July 2. Euroissansum, Legis dature und Headin  Maria Paris, R. Schildigui, New Maria, Manya Kamue Sangh,  Maria Paris, R. Schildigui, New Maria, Maria Kamue Sangh,  Maria Maria Sandery Kushwalta, Shishin Ed Singh Physic Raman Panday,  Maria Maria Sandery of Hological Sciences, and Rural Development	PSBN 978.81.923515.7.9
ANG. WILL	
JECHANISM OF ACTION AND CHEMISTRY OF SANITIZE	
CHANGE SAMILE	ERS AND DISINFECTANT
165	
public and Rell Srivastava	
object (Security, DC College of University of Allaham a	
and College (AC tale	
W Paper I P. Lindia	
Services College Colle	
Feet all	
be acid is facing a pandemic in the form of the COVID-19 outbreak. This pande the acid is facing a pandemic in the form of the COVID-19 outbreak. This pande the acid is facing a pandemic in the form of the COVID-19 outbreak.	2019
production The world is facing a pandemic in the form of the COVID-19 outbreak. This pands The world he World Health Organization about spreading cases of disease like the first first informed the World Health Organization to more provinces of China and to the	to the server of a server of 31. December 2017
Later on this disease is now call	led COVID-19 The SARS means - severe
as their information of the disease started spreading to more provinces of China and to the work Later on this disease started spreading to more provinces of China and to the work Later on this disease is now call spreading pandemic. The virus has been named SARS-CaV-2 and the disease is now call spreading pandemic. The virus has been named SARS-CaV-2 and the disease. It was first reported to the control of the contro	in 2019 so it is named as COVID-19. It is
Age of this service has been named SARS-CaV-2 and the disease is now call been in pandement. The virus has been named SARS-CaV-2 and the disease is now call service in pandement and COVID means Coronavirus disease. It was first reported or memory syndrome and COVID means Coronavirus disease. It was first reported to memory syndrome and COVID means coronavirus and the service of the service	by germs that spread between animals and
an representation of the bat Coronavirus. It is zoonotic in origin i.e. the disease is caused settled similar to the bat Coronavirus. It is zoonotic in origin i.e. the disease is caused settled similar to the bat Coronavirus. This virus is very contagious and has rapidly spread throughout the world. Coronavir This virus is very contagious and has rapidly spread throughout the world. Coronavirus. This virus is very contagious and has rapidly spread throughout the world. Coronavirus.	a virus has a crown like appearance having
sele: [In fold RNA. It is an enveloped virus with spikes like glycoproteins. It belongs to with standed RNA. It is an enveloped virus with spikes like glycoproteins. It belongs to ache corons virus and order is Nidovirales. To win the battle against coronavirus, disa	infectants and sanitizations are playing very
10th corona value and	
cortes raies	
ichoic unitizers  According to world Health Organization (WHO), hand sanitizers containing al	cohol are capable to inactivate coronavirus
According to world Health Organization (WHO), hand santizers containing at book and i.e. COVID-19. There is no antiviral drug or vaccine which can prevent the s	pread of severe acute respiratory syndrome
buse addit. COVID-19. There is no antiviral drug or vaccine which can prevent its s organize 2 (SARS -CoV-2), the virus that causes COVID-19. WHO recommendent	ds two alcohol based formulations to kill
gravita.	
literalation I It contains 80% (vol/vol) ethanol, 1.45% (vol/vol) glycerin and 0.125% (vol/vol)	) hydrogen peroxide.
Institution 2 The composition of this sanitizer is 75% isopropanol (vol/vol), 1.45% glycer	in (vol/vol) and 0.125% hydrogen peroxide.
The composition of this sanitizer is 75% isopropanio (Volvon), 1999 isoprop	rong virus in 30 seconds.
M-Stephanie Pfander of Germany showed that both tricke to managers	
helatism of action of alcohol on coronavirus	and PNA may be single stranded or double
fetenism of action of alcohol on coronavirus  Gracully viruses contain genetic material. It may be DNA or RNA. Both DNA  fraid These DNA and RNA may be positively sensed or negatively sensed. If it is dis-	months responsibilitable into protein if it were RNA
These DNA and RNA may be positively sensed or negatively sensed. It is	1. 6 - compar RNA is negative sense RNA
The DNA is known as nositive sense DNA. On the other hand, complementary	and a service of finid envelop (not
ton the genetic material, viruses also contain a protein coat which is known	the American Correide a host, they are no
<sup>15</sup> Entites. The life cycle of a virus consists of following steps: Attachment to the bulbs. Scientists are focusing on altering the structure and function of the viral envelopment, which surrounds the genetic material and genetic material itself. Scientists.	tope derived to alcohols have strong virueida
to capsid, which surrounds the genetic material and genetic material itself. Scienti	sts believe that account
200	

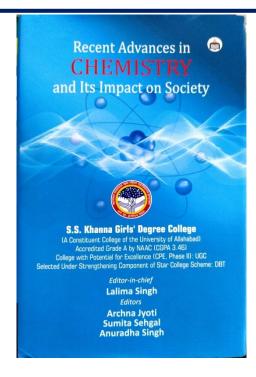




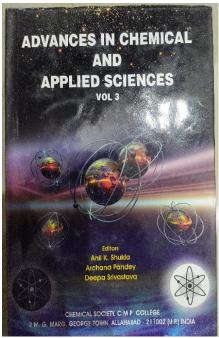
(A Constituent P.G. College, University of Allahabad)

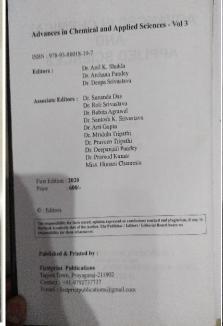
Under the Strengthening Component of DBT Star College Scheme

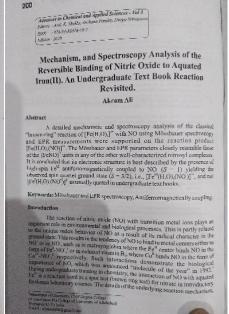
Website: www.cmpcollege.ac.in



#### Contents About the College Indian Science Congress Association (ISCA) Recent Advances in Catalysis in Organic Synthesis: A First-hand Experience Fatima Tufail, Mohammad Saquib, Jagdamba Singh 15 Polymers – Emerging Smart Materials of the New Age Tulika Malviya, Shehala, Surabhi Gupta, Lalit Mohan Dw Mani Prabha, Aayushee and Vandana Singh 45 Recent Advances in Treatment of HIV/AIDS Infection and its Social Implication 72 Vishal Kumar Singh, Anuradha Singh and Ramendra K. Singh 4. Sustainable Chemistry: Envisioning a Sustainable Society 5. Dolphin as Bioindicator - A Review 120 shwani Sharma, Kuldeep Mishra and Archana Pandey 6. Health Effects of Atmospheric Pollution 132 7. Melatonin and Circadian Rhythm 145 Antihepatotoxic Activity of Different Solvent Extracts of Aerial Part of Plantago major against CCl<sub>4</sub> induced Hepatotoxicity in Wistar Rats Jyoti Vandana Mani, A. K. Gupta and Alok Mukerjee 152











(A Constituent P.G. College, University of Allahabad)

Under the Strengthening Component of DBT Star College Scheme

Website: www.cmpcollege.ac.in

5 Dolphin as Bioindicator - A Review Ashwani Sharma, Kuldeep Mishra and Archana Pandey

#### Abstract

Abstract

If animal health is deteriorating over a trend of several years because their environment is deteriorating, it is a warning for human beings because people live in the same habitat, eat same food and use same water. Good environment health is essential to maintain productivity, stability, biodrovenity, and economic, initratisc, cultural and a sethetic value. Environment health can be assessed by marine mammals. Dolphirus act as good bioindicator as they are on the top of food chains. Their blubber contains high concentration of twoic substances. Monitoring these pollutants in dolphirus is cost effective procedure and it also indicate changes in marine and river pollution.

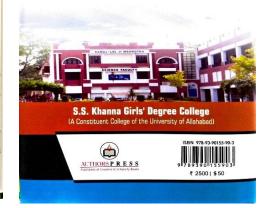
Keywords: Dolphin, Bioindicator, Echolation, Marine health, Trace elements, Oil spills, Ciguatera, Ganges Dolphin

Water is the most important resource of all organisms on earth. It is also called as universal solvent i.e. it has a tendency to dissolve may substances. This is the reason that it is polluted very easily. The addition of frozing resolution to the property of the proper The addition of foreign materials e.g. domestic sewage, amise acceptance and micro-organisms contaminate a stream, river, aquifer, occan and micro-organisms contaminate a stream, river, aquifer, occan lake, ponds etc. and degrading water quality causing harm to

Editor-in-Cheft Latima Singh; Editors Archana Jyot; Sumita Sahgal; Anuradha Singh First Publened in 2020 by Authorspress Copyright © 2020 S.S. Khanna Girls 'Degree College

All kinds of scientific research revolve around chemical science and serves as a basic and latest tool for its development. It is only through this systematic scientific research that we divert ourselves of our preconceived notion and superstition and moves towards understanding of ourselves and our word.

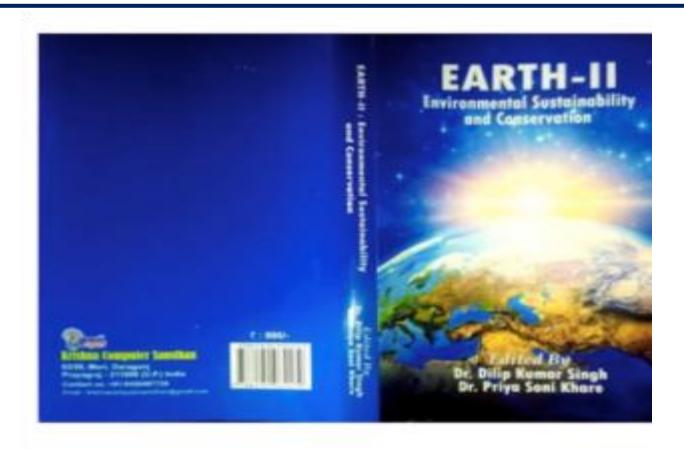
The Department of Chemistry, S.S. Khanna Girls Degree College, a promising constituent college of the University of Allahabad, in collaboration with Allahabad Science Congress Association (ISCA) organized a National Seminar on the topic "Recent Advances in Chemical sciences and its Impact on Society", on 26th 27th November, 2019, a them highly relevant in the present circumstances. This book is the compliation of seminar proceeding in collete form. Is included the viewpoints of learned fratentiny and a flourishing base for moved researches in the field of chemistry. All the contributors of this book are having expertized in their respective research field and need to be praised for their contribution in book publication. It is expected that this book will stimulate discussion and make significant contribution for updating knowledge in the areas of newer research in chemistry.







(A Constituent P.G. College, University of Allahabad)
Under the Strengthening Component of DBT Star College Scheme



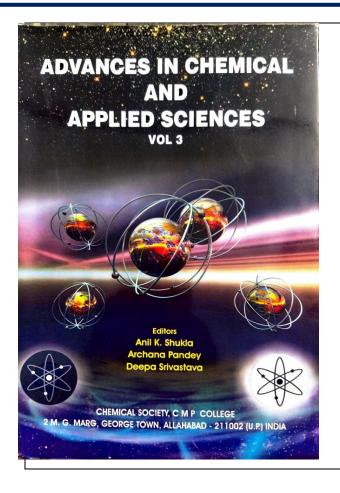






(A Constituent P.G. College, University of Allahabad)
Under the Strengthening Component of DBT Star College Scheme

Website: www.cmpcollege.ac.in



### ADVANCES IN CHEMICAL AND APPLIED SCIENCES

Vol 3

Editors Anil K. Shukla Archana Pandey Deepa Srivastava

CHEMICAL SOCIETY, C M P COLLEGE (Regd. No. 3446/AL-32535) 2 M. G. MARG, GEORGE TOWN, PRAYAGRAJ - 211002 (U.P.) INDIA





(A Constituent P.G. College, University of Allahabad)

Under the Strengthening Component of DBT Star College Scheme

Website: www.cmpcollege.ac.in

#### Advances in Chemical and Applied Sciences - Vol 3

ISBN: 978-93-88018-19-7

Dr. Anil K. Shukla

Dr. Archana Pandey

Dr. Deepa Srivastava

Associate Editors: Dr. Sunanda Das

Dr. Roli Srivastava Dr. Babita Agrawal

Dr. Santosh K. Srivastava

Dr. Arti Gupta

Dr. Mridula Tripathi Dr. Prayeen Tripathi

Dr. Deepanjali Pandey

Dr. Pramod Kumar

Miss. Himani Chauresia

First Edition: 2020

Price : 600/-

© : Editors

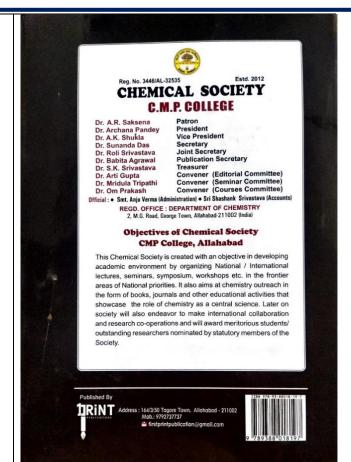
The responsibility for facts stated, opinion expressed or conclusions reached and plagiarism, if any, it is now it is book is entirely that of the Author. The Publisher / Editors / Editorial Board bears no responsibility for them whateveer.

#### Published & Printed by:

#### Firstprint Publications

Tagore Town, Prayagaraj-211002 Contact: +91-9792737737

E-mail: firstprintpublications@gmail.com



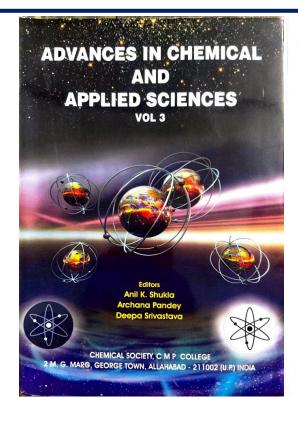




(A Constituent P.G. College, University of Allahabad)

Under the Strengthening Component of DBT Star College Scheme

Website: www.cmpcollege.ac.in



#### Advances in Chemical and Applied Sciences - Vol 3

ISBN: 978-93-88018-19-7

Dr. Anil K. Shukla Dr. Archana Pandey Editors :

Dr. Deepa Srivastava

Associate Editors: Dr. Sunanda Das Dr. Roli Srivastava

Dr. Babita Agrawal Dr. Santosh K. Srivastava

Dr. Arti Gupta Dr. Mridula Tripathi

Dr. Praveen Tripathi

Dr. Deepanjali Pandey Dr. Pramod Kumar

Miss. Himani Chauresia

First Edition: 2020

© : Editors

The responsibility for facts stated, opinion expressed or conclusions reached and plagiarism, if any. responsibility for the Author. The Publisher / Editors / Editorial Board bears no

#### Published & Printed by:

#### Firstprint Publications

Tagore Town, Prayagaraj-211002 Contact: +91-9792737737

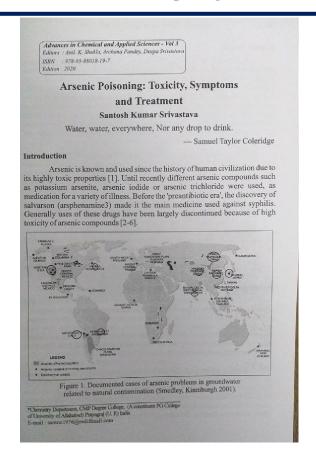
E-mail: firstprintpublications@gmail.com





(A Constituent P.G. College, University of Allahabad)

Under the Strengthening Component of DBT Star College Scheme

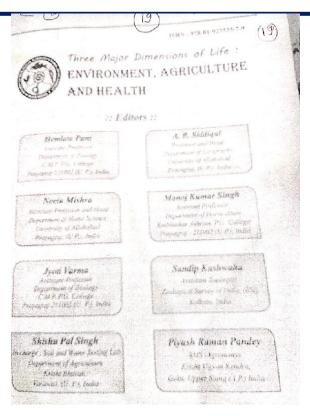


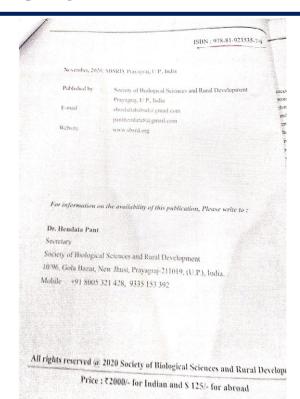




(A Constituent P.G. College, University of Allahabad)

Under the Strengthening Component of DBT Star College Scheme



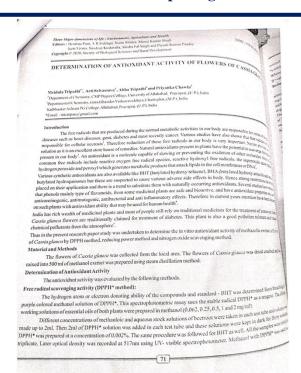






(A Constituent P.G. College, University of Allahabad)

Under the Strengthening Component of DBT Star College Scheme

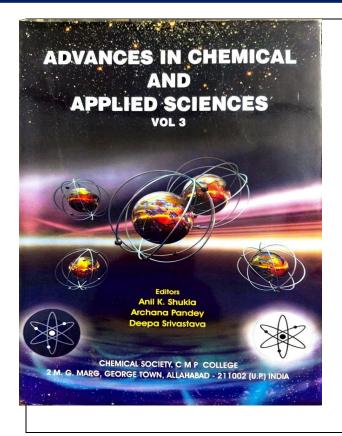






(A Constituent P.G. College, University of Allahabad)
Under the Strengthening Component of DBT Star College Scheme

Website: www.cmpcollege.ac.in



#### ADVANCES IN CHEMICAL AND APPLIED SCIENCES

Vol 3

Editors Anil K. Shukla Archana Pandey Deepa Srivastava

CHEMICAL SOCIETY, C M P COLLEGE (Regd. No. 3446/AL-32535) 2 M. G. MARG, GEORGE TOWN, PRAYAGRAJ - 211002 (U.P.) INDIA





(A Constituent P.G. College, University of Allahabad)

Under the Strengthening Component of DBT Star College Scheme

Website: www.cmpcollege.ac.in

#### Advances in Chemical and Applied Sciences - Vol 3

ISBN: 978-93-88018-19-7

Editors :

Dr. Anil K. Shukla Dr. Archana Pandey

Dr. Deepa Srivastava

Associate Editors: Dr. Sunanda Das

Dr. Roli Srivastava

Dr. Babita Agrawal

Dr. Santosh K. Srivastava

Dr. Arti Gupta Dr. Mridula Tripathi

Dr. Praveen Tripathi

Dr. Deepanjali Pandey Dr. Pramod Kumar

Miss. Himani Chauresia

First Edition: 2020

Price

© : Editors

The responsibility for facts stated, opinion expressed or conclusions reached and plagfarism, if any, it is book is entirely that of the Author. The Publisher / Editors / Editorial Board bears no responsibility for them whatsoever.

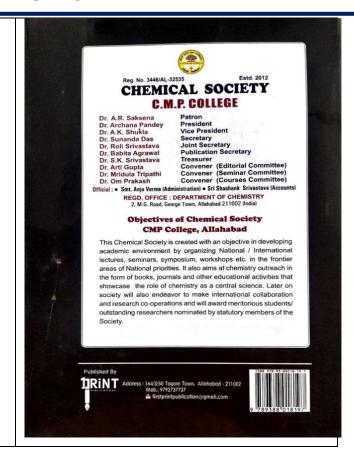
#### Published & Printed by:

#### Firstprint Publications

Tagore Town, Prayagaraj-211002

Contact: +91-9792737737

E-mail: firstprintpublications@gmail.com

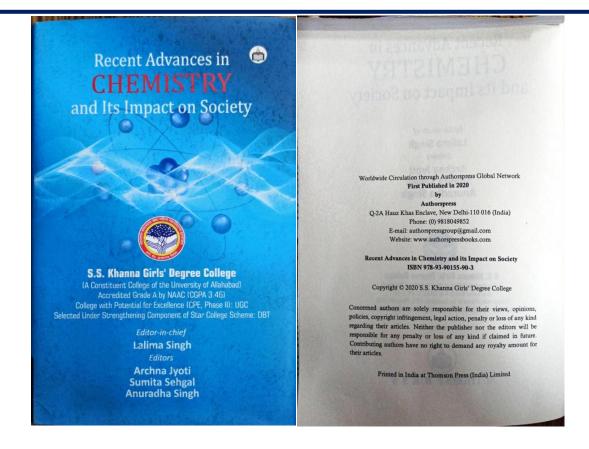






(A Constituent P.G. College, University of Allahabad)

Under the Strengthening Component of DBT Star College Scheme

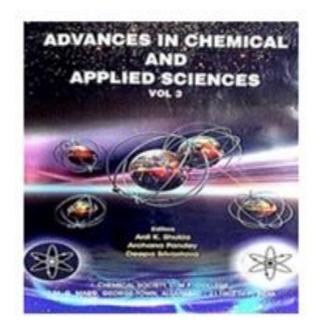






(A Constituent P.G. College, University of Allahabad)
Under the Strengthening Component of DBT Star College Scheme

Website: www.cmpcollege.ac.in



Advances in Chemical and Applied Sciences + 6of J.
Editors - And B. Shake Acchain Australia Singa Source
1988 - No. 88 1980 6 pl
Editors - 1989.

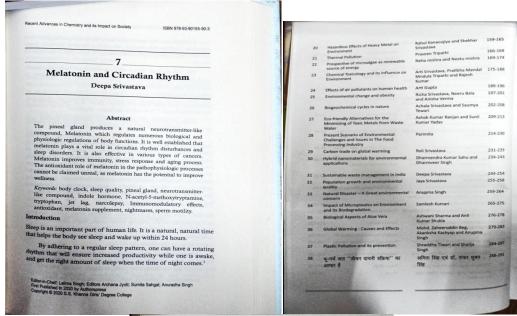


975





(A Constituent P.G. College, University of Allahabad)
Under the Strengthening Component of DBT Star College Scheme

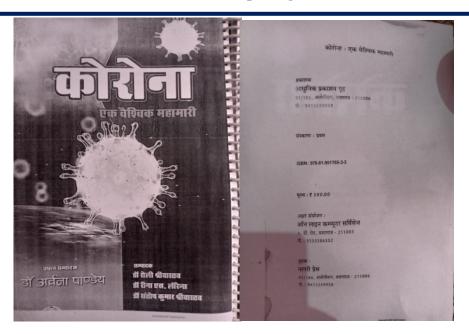


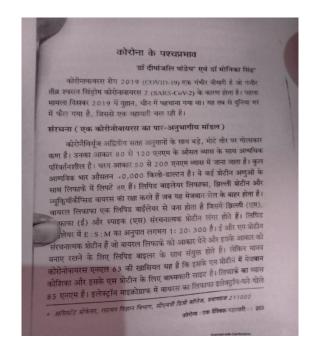
lous Effects of Heavy Metal on unerth and production crive of microalgae as renewable of energy all Toxicology and its Influence on iment of air pollutants on human health mental change and obesity hemical cycles in nature high alternatives for the ling of Toxic Metals from Waste Scenario of Environmental es and Issues in The Food ing Industry arade on global warming anomaterials for environmental ons	Rahul Kanaoujiya and Shekhar Srivastava Prawen Tripathi Neha mishra and Neetu mishra Arti Srivastava, Pratibha Mandal Mridula Tripathi and Rajesh Kumar Arti Gupta Richa Srivastava, Neeru Bala and Anisha Verma Achala Srivastava and Saumya Tewari Ashok Kumar Ranjan and Sunil Kumar Yadav Parimita	166-16 169-17 175-18 189-19 197-20 202-20 209-21 214-23 231-23 234-24
al Pollution ctive of microalgae as renewable of energy al Toxicology and its influence on ment of air pollutants on human health mental change and obesity hemical cycles in nature indig Alternatives for the ling of Toxic Metals from Waste Scenario of Environmental tes and issues in The Food ng Industry trade on global warming anomaterials for environmental ons	Neha mishra and Neetu mishra Arti Srivastava, Pratibha Mandal Mridula Tripathi and Rajesh Kumar Arti Gupta Richa Srivastava, Neeru Bala and Anisha Verma Achala Srivastava and Saumya Tewari Ashok Kumar Ranjan and Sunil Kumar Yadav Parimita Roli Srivastava Dharmendra Kumar Sahu and Dharmendra Kumar Sahu and Dharmendra Kumar Sahu and	169-17 175-18 189-19 197-20 202-20 209-21 214-23
citive of microalgae as renewable of energy of energy all Toxicology and its influence on ment of air pollutants on human health mental change and obesity hemical cycles in nature indigenous control of the mental change and obesity hemical cycles in nature indigenous control of the indigenous control of	Arti Srivastava, Pratibha Mandal Mrdula Tripathi and Rajesh Kumar Arti Gupta Richa Srivastava, Neeru Bala and Anisha Yerma Achala Srivastava and Saumya Tewari Ashok Kumar Ranjan and Sunii Kumar Yadav Parimita Roli Srivastava Dharmendra Kumar Sahu and Dharmendra Kumar Sahu and	175-18 189-19 197-20 202-20 209-21 214-23
al Touicology and its Influence on ment of air pollutants on human health mental change and obesity hemical cycles in nature indig Alternatives for the ing of Toxic Metals from Waste Scenario of Environmental es and Issues in The Food ing Industry rarde on global warming anomaterials for environmental ons	Mridula Tripathi and Rajesh Kumar Arti Gupta Richa Srivastava, Neeru Bala and Anisha Verma Achala Srivastava and Saumya Tewari Ashok Kumar Ranjan and Sunil Kumar Yadav Parimita Roli Srivastava Dharmendra Kumar Sahu and Dharmendra	189-19 197-20 202-20 209-21 214-23
mental change and obesity hemical cycles in nature indly Alternatives for the ing of Took Metals from Waste Scenario of Environmental tes and Issues in The Food ing Industry trade on global warming anomaterials for environmental ons	Richa Srivastava, Neeru Bala and Anisha Verma Achala Srivastava and Saumya Tewari Ashok Kumar Ranjan and Sunil Kumar Yadav Parimita Roli Srivastava Dharmendra Kumar Sahu and Dharmendra Kumar Sahu and	197-20 202-20 209-21 214-23 231-23
mental change and obesity hemical cycles in nature indly Alternatives for the ing of Took Metals from Waste Scenario of Environmental tes and Issues in The Food ing Industry trade on global warming anomaterials for environmental ons	and Anisha Verma Achala Srivastava and Saumya Tewari Ashok Kumar Ranjan and Sunil Kumar Yadav Parimita Roli Srivastava Dharmendra Kumar Sahu and Dharmeer Singh	202-20 209-21 214-23 231-23
ndly Alternatives for the ling of Toxic Metals from Waste Scenario of Environmental ges and Issues in The Food ng Industry trade on global warming anomaterials for environmental ons	Tewari Ashok Kumar Ranjan and Sunil Kumar Yadav Parimita Roli Srivastava Dharmendra Kumar Sahu and Dharmever Singh	209-21 214-23 231-23
ing of Toxic Metals from Waste Scenario of Environmental ges and Issues in The Food ing Industry trade on global warming anomaterials for environmental ons	Rumar Yadav  Parimita  Roli Srivastava  Dharmendra Kumar Sahu and  Dharmveer Singh	214-23
ges and Issues in The Food ng Industry trade on global warming anomaterials for environmental ons	Roli Srivastava Dharmendra Kumar Sahu and Dharmveer Singh	231-23
anomaterials for environmental ons	Dharmendra Kumar Sahu and Dharmveer Singh	
anomaterials for environmental ons	Dharmveer Singh	234-24
ble waste management in India		
	Deepa Srivastava	244-25
on growth and environmental	Jaya Srivastava	255-25
	Anupma Singh	259-26
	Samlesh Kumari	265-27
al Aspects of Aloe Vera	Ashwani Sharma and Anil Kumar Shukla	276-27
Varming : Causes and Effects	Mohd. Zaheeruddin Beg, Akanksha Kashyap and Anupma Singh	279-28
ollution and its prevention	Shraddha Tiwari and Shailja Singh	284-28
	अमिता सिंह एवं डॉ. शंकर सुवन सिंह	288-29
	Disaster – A Great environmental of Microplastics on Environment Biodegradation al Aspects of Aloe Vera Warming : Causes and Effects Collution and its prevention RE ''체육과 대체 기계	Samlesh Kumari Slodegradation al Aspects of Aloe Vera kumar Shukla Narming : Causes and Effects Mohd, Zaheeruddin Beg, Akanicha Kashyap and Anupma Singh collution and its prevention ভাল "গীখন বাখনা সচিন্দা" কা সনিনা নিভ যুব বাঁ, খাক্ম মুবন





(A Constituent P.G. College, University of Allahabad)
Under the Strengthening Component of DBT Star College Scheme

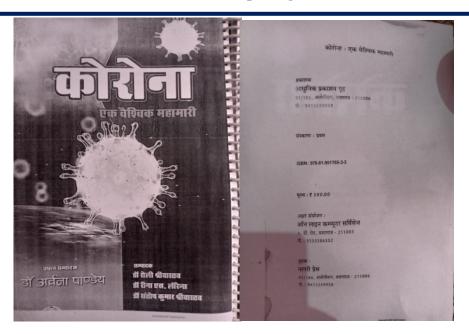


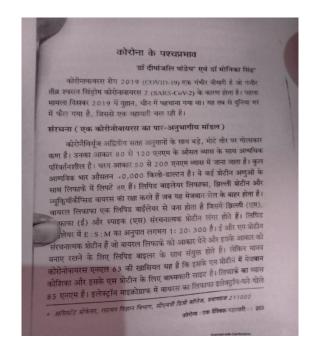






(A Constituent P.G. College, University of Allahabad)
Under the Strengthening Component of DBT Star College Scheme





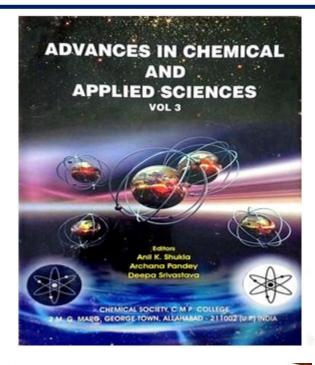




(A Constituent P.G. College, University of Allahabad)

Under the Strengthening Component of DBT Star College Scheme

Website: www.cmpcollege.ac.in



Advances in Chemical and Applied Sciences - Vol 3 ISBN: 978-93-88018-19-7 Dr. Anil K. Shukla Dr. Archana Pandey Dr. Deepa Srivastava Associate Editors : Dr. Sc Dr. Robi Srivastava Dr. Babita Agrawal Dr. Santosh K. Srivastava Dr. Arti Gupta Dr. Mridula Tripathi Dr. Praveen Tripathi Dr. Praven Tripathi Dr. Pramod Kumar Miss. Himani Chauresia First Edition: 2020 O: Editors The responsibility for facts stated, opinion expressed or conclusions reached and plugfarion this bank to entirely that of the Aurikon. The Publisher / Editors / Editoria Board Severs on responsibility. For the most Published & Printed by : Firstprint Publications
Tagore Town, Prayagaraj-211002
Contact: +91-9792737737
E-mail: firstprintpublications@gmail.com

	19. A Case Study of Modification in Pharmaceutical Drugs through Cocrystallization for
	Improvement of Drugs Delivery
	Kangeer Kumar and Francia Kumar
2	20. Bioindicators: As Model Organisms to Study the Effects of
	Environmental Variables
	Sarita Agrawai
2	<ol> <li>MOFs Based on Azide (N<sub>3</sub>) and Nicotinamide Ligands with Cd (II),[Cd<sub>3</sub>(μ-N<sub>3</sub>)<sub>4</sub></li> </ol>
	(Nicotinamide), ]H <sub>2</sub> O Synthesis & Characterization
	Deepanjali Pandey
2	2. Technology and Human Mind
0029	Pramila Gupta
2.	3. Advances In Applications of Ionic Liquid
0.00	Arjita Srivastava and Abhishek Srivastava
24	4. Effective Address to Anti-Microbial Resistance in the Environment
25	5. Mechanism, and Spectroscopy Analysis of the Reversible Binding of Nitric Oxide to
	Aquated Iron(II). An Undergraduate Text Book Reaction Revisited200
	Akram Ali
26	Different Characterization Techniques of Nanoprticles
	Neha Silas
27	Enzymes:Their Activity and Role in Metabolism
-	Neerja Kapoor
28	Phytochemistry related to Medicinal Plants
20	Kriti Raje Singh
20	Construction and Standardization of Biology Achievement Test for Higher Secondary
27.	Students 231
	Dilip Kumar Singh
	Delicious Mushroom Recipes
30.	Hemlata Pant and Harshita Pant
	Hemlata Pant and Harshita Fant
31.	Shock Waves and Its Applications
	Harish Chandra Yadav 257
32.	Indian Patent Right
33.	Scientific Validation of Antidiabetic Property of Selected Medicinal Plants262
34	Ayushi Tiwari, Manjulika Yadav and Geeta Watai  Consequences of Air pollution on Central Nervous System
-4.	Sippy Singh and Durgesh Singh 275
	Sippy Singh and Durgesh Singh  Green Approaches for Synthesis of Quinazolinone
35.	Green Approaches for Synthesis of Camanana and Camanana a
	Vishal Srivastava 280 Liquid Crystals: Significant Material for Future Advancement 280
36.	Liquid Crystals: Significant Material for Future Advancement
	Abhinav Lal 302
37.	Abhinav Lal 302 Ecology of Cyanobacteria
	Amita Pandey

#### A Case Study of Modification in Pharmaceutical Drugs through Cocrystallization for Improvement of Drugs Delivery

Ranjeet Kumar\* and Pramod Kumar

Rangest Samples (Samples Samples Sampl

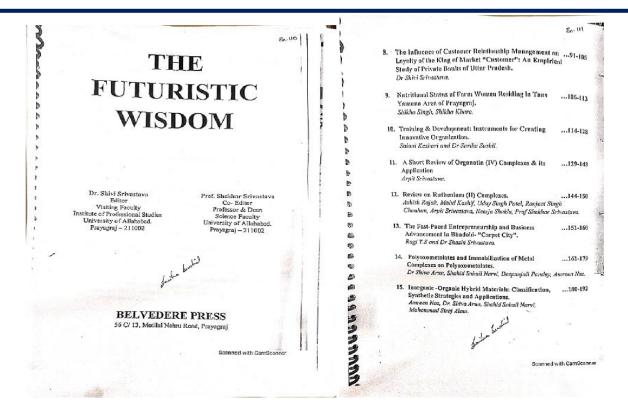
Department of Chambers, CMP Degree Colleged A sometiment PC enlarge of University of Allahabata Personne, 11 P. Laha





(A Constituent P.G. College, University of Allahabad)

Under the Strengthening Component of DBT Star College Scheme







(A Constituent P.G. College, University of Allahabad)

Under the Strengthening Component of DBT Star College Scheme

enapelbivent st.

Website: www.cmpcollege.ac.in

### Training and Development: Instruments for Creating Innovative Organisation

Salani Keshari\*, Br. Sarika Sushij\*\* National Accountry, Inc. Southern Statistics of Allafolist, India. Section CMP Degree University of Allafolist, India. Authorat Professor, CMP College, University of Allafolist.

#### Abstract

to this Globalkotion era, to compete and system in the long rown business establishment must feeter the entituee of executivity and temporation by topping the competency of human capital. Human Capital is the most valued out. of any organization under this globally changing environment. Training and Development are the took used in emploring the skills, empotentials, and boundedge of lumna capital. It converts a mount argumention has a creative and honorotive organization through trained and skilled employees, enuming value califities in pendantifully and profitability. Creativity and homouston are the esservial growth factors that can be attendated through Teatraing and Development initiatives. In these initiatives, employees develop their creativity and problem-solving skills, becausing better of adopting to change and improving their flexibility.

Normality 4, the Training process is kept short and simple in the unfarity of organizations just to provide job-related knowledge, which does not make the perception of complayers and thus leads to fore productive engagers. This paper is no attempt to highlight the need and importance of Training and Development in the present accounts and how it attenuates in making organizations creative and innovative.

Key Words: Training, Development, Creativity, Innovation

#### introduction

Companies today are forced to function in a world fell of change and complexity. It has become highly essential to have the right employees in order to survive in this competitive era. So, in this globalization em, to compete and metain in the long man, a business establishment must fester the casture of creativity and innovation by tapping the competency of

harea critical All corporate strengths are dependent on its human strouges hard expense wind for the success of an organization. Trining and at they have it one of the main functions of the human statutes. prochapted it note as an instrument for adding qualitative and quantitative could be an organization. It increases the performance of human resource period in an expect performance lends to creative and manyative engagement and fail instruction and below and the best performance of the best period of the best per of abbedies. With an increase for the organizational of engineers of objectives. With an increasing rate of charge in the global effectives, especially affect the easet of the 2003-2009 connects raits, common management emerges as a powerful way to feetilete femiabout the new conditions. Most firms competing in the global economy are paying increasing attention to innovation as the key driver of

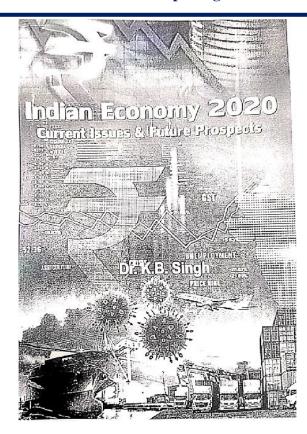
Teaditional Approach of Teatning and Development discloses that most of the organizations generally do not want to invest in Training and perclapment techniques. Traditional thinkers were of the view that rangers are born, not made. According to them, Training increases ancecessary expenses although it is a very costly affair and not worth it. But neden thinkers of the globalized world realized the importance of corporate training in creasing a superfer workforce for incovarior scient of exceptaination. Training is a process of altering workface behaviour and atitudes to increase the probability of achieving goals. The importance of Imining and Development should be recognized by every organization and rever be considered a waste of time and money. It decreases the seed for supervision by the top-level managers and thus perentes actenanty and authority relationship between different levels of people working is as erganization.

As per 2019's Olobal Hussan Capital Trends, learning was resol top among all other recent challenges 11. People now prioritize "opportunity to learn" emong log remons before joining any organization. According to a reent study, only 10% of fresh prairies are skilled to perform effectively in their jobs, and the rest of the 90% of the productes are still beking the skills to be hired by an argunisation 12. So before placing them in the undifferent Inching is necessary for the growth of both individuals and organizations. In the present scenario, employees in the majority of organization other





(A Constituent P.G. College, University of Allahabad)
Under the Strengthening Component of DBT Star College Scheme







(A Constituent P.G. College, University of Allahabad)

Under the Strengthening Component of DBT Star College Scheme

Website: www.cmpcollege.ac.in

C	6	
0,	Coronavirus (COVID 19) Pandemic and Its Global Economic Effects	84
	Prof (Dr.) Sanjay Kumar, Dr. Sunil Kumar, Ritika Raghunanshi	
7.	Role of Micro-Finance During and After COVID-19 in Indian Economy	95
+	Dr. Karuna Shanker Kanaujiya	
8.	A Study of Make in India Initiative and Outcome	114
	Rashmi Chahal, Dr. Narender Singh	
9.	COVID-19 Outbreak and Its Impact on India	124
4	Dr. Joy Das, Animesh Bhattacharjee, Madhu Kumari	124
10.	2020 - Tracking the Global Outbreak	190
	Prof. (Dr.) Sanjay Kumar, Dr. Sunil Kumar, Shreya Patel	139
11.		155
	COVID-19 Pandemic	199
-	Dr. Pankaj Gupta	
12.	Digital Marketing Ecosystem: Driving Force for Digital Based Indian Economy	163
	Dr. Sushil Kumar Pareek	
13.	Managing Personal Finance During COVID-19 Pandemic: An Imperative for Building Financial Resilience	178
	Dr. Awadhesh Kr. Tiwari, Dr. Ajay Pratap Yadav	9
14	. Urban Forecast its Major Challenges in the Growth of Indian Economy	190
	Dr. Hemalatha Ramakrishnan	



Managing Personal Finance During COVID-19 Pandemic: An Imperative for Building Financial Resilience

Dr. Awadhesh Kr. Tiwari<sup>1</sup>, Dr. Ajay Pratap Yadav<sup>2</sup>

#### Abstract

The spread of COVID-19 has changed the global landscape, affecting our financial, professional, and social environments. The sudden disruptions caused by this public health crisis are presenting economic challenges with growing repercussions. While some factors affecting financial well-being are beyond individual control, financial knowledge can help people better manage their finances through times of hardship and times of prosperity.

The present paper, being descriptive in nature, focuses on understanding the concept and aspects of personal finance and offers issues, challenges and suggestions to manage personal

Assistant Professor, Department of Commerce, C.M.P. Degree College (Allahabad University), Allahabad.

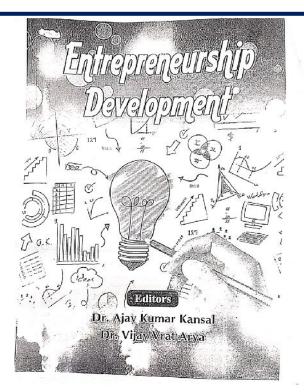
Assistant Professor, Department of Commerce & Financial Studies, Central University of Jharkhand, Ranchi.





(A Constituent P.G. College, University of Allahabad)
Under the Strengthening Component of DBT Star College Scheme

Website: www.cmpcollege.ac.in



#### CONTENT

	Chapter	Page No.
1,	Ratrepreneurship and Business Incubation Dr. Kapii Harit and Dr. Sanjeev Kumar Singh	1-13
2,	Financing of Entrepreneurs Shri Rom Prasad Raharia	14-23
3.	A Framework of Entrepreneurship Development Dr. Pushpender Kumar Surya	24-34
4,	Micro, Small and Medhum Enterprises (MSMEs): An Assessment of Financial Performance and Economic Linkages Shri Kunwarpal Singh Arya and Shri Anil Kumar	35-46
5.	The Role of Higher Educational Institutions in Fostering Entrepreneurship Development Dr. Veda C.V	47-55
6.	Entrepreneurship Development Through Social Media and E-Commerce Shri Arltra Brahma and Ms. Rajasi Dutta	56-69
7.	An Analysis on the Influence of Entrepreneurship Education in Indian Schools for the Growth of Entrepreneurial Skills: Mission Atma-Nithhar Bharat Mrs. Mukta Goyal and Dr. Abhishek Srivastava	70-83
8.	Dynamics of Cyber Attack and Online Senm & Fraud during COVID- 19 Pandemie  Dr. Awadhesh Kr. Tiwari and Dr. Ajay Pratap Yadav	84-93
9.	Making UP \$1-Trillion Economy: with special reference to ODOP plan Dr. Neetu Mishra and Dr. Prooil Pant	94-110
10.	Entrepreneurship in Pandemie Times in India: A way towards Atmanirbhar Bharat Shri Munindra Kumar Singh	111-124



# चौधरी महादेव प्रसाद महाविद्यालय





(A Constituent P.G. College, University of Allahabad)

Under the Strengthening Component of DBT Star College Scheme

Website: www.cmpcollege.ac.in

Chapter - 8

#### DYNAMICS OF CYBER ATTACK AND ONLINE SCAM & FRAUD DURING COVID- 19 PANDEMIC

Dr. Awadhesh Kr. Tiwari Assistant Professor, Department of Commerce, C.M.P.Degree College, Allahabad University, Prayagraj, E-mail: ktawadhesh@gmail.com

Dr. Ajay Pratap Yadav
Assistant Professor, Department of Commerce & Financial Studies,
Central University of Iharkhand, Rauchi.
E-mail: ajaypy@gmail.com

#### ABSTRACT

Cyber threats are constantly evolving in order to take advantage of onlin behaviour and trends. The COVID-19 outbreak is no exception. Cyber criminals ar attacking the computer networks and systems of individuals, businesses and even globiogranizations at a time when cyber defenses might be lowered due to the shift of foct to the health crisis. MSMEs and Startups are more vulnerable toward such attack. The COVID-19 pandemic has presented a golden opportunity for hackers and onlinscammers. Cyber security experts saw a 63 percent increase in cyber-attacks related the pandemic.

nne panaeune.
The present chapter, being descriptive in nature, emphasizes on understanding of Cybr.
Attack and online Scam & fraud and dynamics emerged during COVID 19 Pandem and offers suggestions and resources to manage cyber emergency caused by COVID-1 nandemic.

Keywords: Covid-19 pandemic, On-line scam, Cyber Attack, Cyber-crime

#### INTRODUCTION

The COVID 19 virus has affected most countries in the world, India being onethem with over 19000 people infected till date. Taking into consideration the risk-COVID19, the government announced an initial lockdown of 21 days across India white





(A Constituent P.G. College, University of Allahabad) Under the Strengthening Component of DBT Star College Scheme

Website: www.cmpcollege.ac.in

### PARADIGM SHIFT OF **BUSINESS IN INDIA**

Opportunities, Challenges and Strategies for Sustainable Growth

Editors

Dr. Shailesh K. Dwivedi Dr. Vikas Kumar

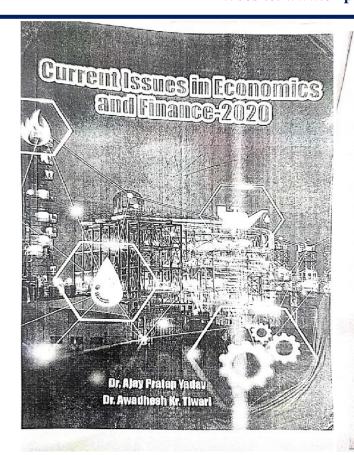


8	<ul> <li>Paradigm Shift of Business in India</li> </ul>	
9,	A Study on Impact & Challanges of GST on Indian Economy Ayan Bandyopadhyay and Debasis Ray	123
10.	New Challenges after Implementation of GST Nisha Joseph and Gopika K Udayan	135
11.	A Study of the Design of Indian Goods and Services Tax Bireshwar Pandey	145
12.	Implications of GST on Selected Real Estate Projects: Perception of Stakeholders Anurag B. Singh	157
13.	A Study on Impact of Covid-19 Lockdown on Goods and Services Tax (GST) Collection: Present and Future Jaya Shahl	180
14.	An Analysis of the Issues and Challenges of Goods and Service Tax (GST) in India Yogita Beri	193
15.	Digital India and Economic Development on the Path to the New India Bhakti Parashar	205
16.	Digital India: Opportunities and Challenges  Anumeha Srivastava	223
17.	Digital India – On the Path to a New India: Impact, Opportunities, and Challenges Sameer Kr. Dwivedi	231
18.	Impact of Digitalisation on Indian Fashion Retail Industry Ms Himanshi Agarwal	251
19.	Digital India: On a Path to New India Deepa Plilai	272
20.	Digitalisation of India - A New Journey to Success	289





(A Constituent P.G. College, University of Allahabad)
Under the Strengthening Component of DBT Star College Scheme



Chapter-7	Page 59		
indian Financial System- Evolution, Gr Coronavirus Dr. <i>Vishal Soxena &amp; Kshama Jain</i>	owth & Impact of		
Chapter-8	Page 70		
Financial Inclusion in India- Important Piyush Gupta & Anya Yadav	Milestones		
Chapter-9	Page 79		
Challenges Faced by Financial Services Industry-2020 Ankita Goyal & Dr. Upendra Singh			
Chapter-10	Page 89		
Impact of COVID-19 on Indian Industry: Challenges and Opportunities  Rojkumar Singh			
Chapter-11	Page 97		
Make In India: Success or Failure Shiksha swamt			
Chapter-12	Page 106		
Foundations and Introduction of Islamic and Trends Dr. Bilal Ahmad Khan	: Economics: Role		
Chapter-13	Page 122		
Significance of E-commerce in Economic Development of India			





(A Constituent P.G. College, University of Allahabad)

Under the Strengthening Component of DBT Star College Scheme

Website: www.cmpcollege.ac.in

Chapter-10

Impact of COVID-19 on Indian Industry: Challenges and Opportunities

Rajkumar Singh Assistant Professor, Department of Commerce, CMP Degree College, University of Allahabad, Uttar Pradesh

Abstract
The outbrook of the COVID-19 pandemia is not only responsible for loss oftwaren liver but also responsible for of distressed Indian economies. The outbrook has presented fresh challenges towards MGNR564, Restaurant service, food and agriculture, MSME, Teams and ordine business. Understanding the challenges of COVID-19 pandemic on the Indian economy is visal to formulate the policy and measures to contain the convente impact. This paper revueled the potential challenges of the Covid-19 pandemic on various sectors like MGNR564, Restaurant service, food and agriculture, MSME, Toursman and online business and put forward a set of policy recommendations for specific sectors.

Keywards: Corona virus, Economy, Challenges and Opportunities, and Sectors

Introduction

The first case of the Covid-19 was reported in the December, 2019 in the Wuhan city of China, thus the many other countries have shut down their economic activities due to the spread of COVID-19 pandemic. The first case of COVID-19 in India reported in January, 2020 therefore Government of India has taken various steps to control the spread of Covid-19. The Government of India has beekdown the country for few months which affected the various sectors like MGNREGA, Restaurant service, food and agriculture, MSME, Tourism and online business and the Indian economy has been already experiencing significant slowdown over the past few quarters, However, the Covid-19 pandemic has made the recovery extremely difficult in the near future. Manufacturing industries play significant role in global economy and also play important role in the development of country by contribution in the gross domestic product (Chandrasekhar et al., 2020). Government of India is taking all necessary steps to casure that we are prepared well to face the challenges posed by the growing COVID-19 pandemic. The Indian economy has been hit hard by the ongoing COVID-19 pandemic. The Indian economy has been hit hard by the ongoing COVID-19 pandemic. As on 31st July 2020, about one million people in India have been affected by COVID-19 with some variations, there has been an unprecedented rise in number of Corona patients across the world. The entire world is passing through great uncertainty. In this pandemic Government of India is facing two

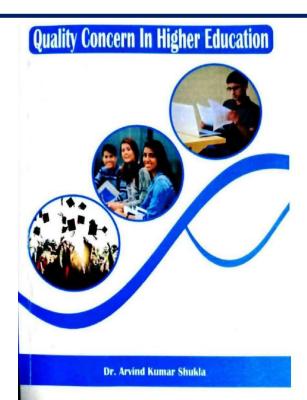




(A Constituent P.G. College, University of Allahabad)

Under the Strengthening Component of DBT Star College Scheme

Website: www.cmpcollege.ac.in



#### Indicators of Quality in Higher Education

Dr. Abha Singh

Associate Professor Department of Education CMP College, Prayagraj

Higher Education Institutions (HEI) are regarded as one of the crucial factors in developing excellent manpower in a country. HEIs in the India are either public or private colleges and universities which are licensed, controlled and supervised by the University Grant Commission. It is the government agency responsible for the formulation and implementation of plans, policies and program for the development and efficient operation of higher education system in the India. Quality of education is defined by UNICEF (2000) as outcomes that encompass knowledge, skills and attitudes, and are linked to national goals for education and positive participation in society. Quality in higher education is a multidimensional concept that looks at the quality of a whole institution. Educational quality can be measured by means of indicators which include educational input, process, outcome and context indicators. Education indicators provide information about the health of the educational system. Quality is the most cherished goal in human endeavor and especially in the field of education. Quality is at the core of education. It determines what students learn, how well they learn and what benefits they draw from their education. These issues have pushed the countries to have on their agenda the mission to ensure students' optimum learning outcomes that help them play a positive role in creating a civil society.

The role of higher Education in national development is well established as it is this level of education which provides top-level of man-

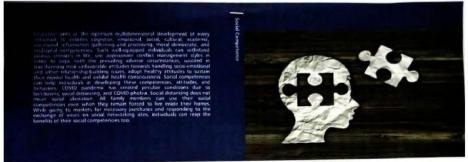
1





(A Constituent P.G. College, University of Allahabad)
Under the Strengthening Component of DBT Star College Scheme

Website: www.cmpcollege.ac.in



Social Competence and Its Correlates





LAMBERT



# चौधरी महादेव प्रसाद महाविद्यालय





(A Constituent P.G. College, University of Allahabad)

Under the Strengthening Component of DBT Star College Scheme

Website: www.cmpcollege.ac.in

RELATIONSHIP OF SOCIAL COMPETENCE WITH EMOTIONAL INTELLIGENCE AND ACADEMIC PERFORMANCE OF UNDERGRADUATE STUDENTS

> Dr. ABHA SINGH AssociateProfessor Department of Education C M P College, Prayagraj

#### ABSTRACT

This study has been undertaken to explore relationship of social competence with emotional intelligence and academic performance among undergraduates trudents. The sample comprised of 100 undergraduate students (30 male and 30 founded studying in one degree college of Prayagori city. Social Competence Scale: and Test of Emotional Intelligence. Social bothing by students in B. A. part I were used so measure the social competence and emotional intelligence. Marks obtained by students in B. A. part I were used as measures of academic performance. Pearson's Product Moment correlation was used to analyze the data. It was found that a positive relationship exists between boys' emotional intelligence and social assertiveness; girls' social competence; is positively related to emotional intelligence and social assertiveness; significant of social social intelligence is positively related to social social assertivenes; information alertness, and sustainability: total social competence is positively related to emotional intelligence performance; girls' academic performance; professional performance; professional performance, performance performance performance performance professional performance, performance perfo

Undergraduate students undergo rapid emotional, physical, psychological, intellectual and social changes that are stressful and difficult to manage. The developmental changes affect their interactions with their teachers and peers. They often influence academic achievement and social competencies. Social competence is the ability to understand and handle social interactions effectively. It helps students to get along with others, be able to form and maintain close relationships, and respond in adaptive ways in social settings. It is the product of a wide range of cognitive abilities applied to social behaviours, social awareness, and affective behaviours. It can vary with age of a person, specific social situations and cultural expectations). behaviours. It can vary with age of a pusson, specific some standards or cultural excellent Social competencies are crucial for maximum utilization of intellectual potential and academic success even when students experience difficulties in communication. Emotional intelligence helps students in better understanding of their intrapersonal and interpersonal efficacy, stress management and adaptability. Emotional intelligence is the capacity to be aware of one's and others' emotions, express and control one's emotions, and manage other's emotions. Academic performance in a subject or a course is a measure of how well students have performed on various assessments. It may also be influenced by social competencies of students.

Petrides, et al. (2004) looked at the relationship between trait emotional intelligence, academic performance and cognitive ability and concluded that emotional intelligence moderated the relationship between academic Performance and cognitive ability. Parker et al. (2004) concluded that emotional intelligence can predict academic success. They found that highly successful students scored higher than unsuccessful group on three subsets of emotional intelligence-interpersonal ability, stress management and adaptability. Devi & Rayula (2005) revealed significant difference in interpersonal skills component of boys and girls favouring



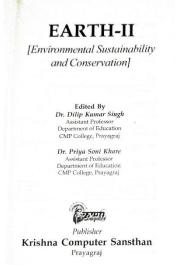


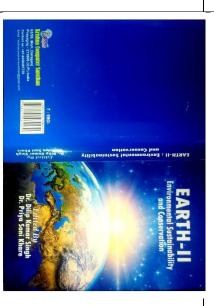
(A Constituent P.G. College, University of Allahabad)

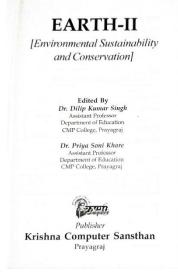
Under the Strengthening Component of DBT Star College Scheme

Website: www.cmpcollege.ac.in









Publisher
Krishna Computer Sansthan
ex/59/, Mori, Daragani, Prayagraj 211006 (U.P.)
Contact: +91-450407739
Email: Arishna computersansthan@gmail.com

EARTH-II
[Environmental Sustainability and Conservation]

Edited By
Dr. Dilip Kumar Singh
Dr. Priga Soni Khare

©: Editor

The asymmatiany for facts stated, opinion expressed or conclusions reduced and displanting they in the beat seniorship to the whatever.

Price: 990

Price: 990

Price septembliny for facts stated, opinion expressed or conclusions reduced and displanting they in the beat seniorship to the whatever.

Page Setting
Brahmanand Mishra

Printed by:
Infinity Imaging System
New Delhi

ISBN: 978-81-949641-7-9
Publisher
Krishna Computer Sansthan
ex/59/, Mori, Daragani, Prayagraj 211006 (U.P.)
Contact: +91-9450407739

EMAIL: II
[Environmental Sustainability and Conservation]

EARTH-II
[Environmental Sustainability and Conservation]

Edited By
Dr. Dilip Kumar Singh
Dr. Priya Soni Khare

©: Editor

First Edition: 2020

Price: 990

Page Setting Brahmanand Mishra

Printed by : Infinity Imaging System New Delhi

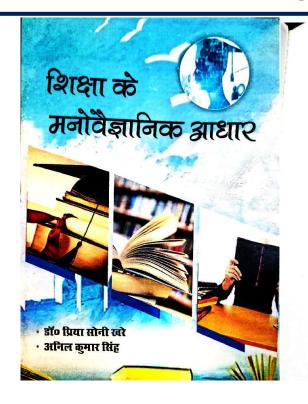
ISBN: 978-81-949641-7-9





(A Constituent P.G. College, University of Allahabad)
Under the Strengthening Component of DBT Star College Scheme

Website: www.cmpcollege.ac.in



## शिक्षा के मनोवैज्ञानिक आधार

#### डॉ. प्रिया शोनी खारे

असिस्टेंट प्रोफेसर शिक्षा विभाग, सी.एम.पी. डिग्री कॉलेज इलाहाबाद

#### अनिल कुमार सिंह

असिस्टेंट प्रोफेसर मनोविज्ञान विभाग एन. आर. ई. सी. कॉलेज खुर्जा



#### Swaranjali Publication

swaranjalipublication@gmail.com, 8700124880, 9810749840 Vasundhara, Ghaziabad, 201012



# चौधरी महादेव प्रसाद महाविद्यालय





(A Constituent P.G. College, University of Allahabad)

Under the Strengthening Component of DBT Star College Scheme

Website: www.cmpcollege.ac.in

स्वराजिल पब्लिकेशन प्रा. लि. द्वारा प्रकाशित सेक्टर 10-बी, वसुंधरा, गाजियाबाद, उ०प्र० -201012 प्रकाशित 2021, © स्वरॉंजलि पब्लिकेशन

इस पुस्तक में प्रामाणिक और अत्यधिक सम्मानित सोतों से प्राप्त लानकारी शामिल है। पुनर्प्रकाशित सामग्री अनुमति के साथ उद्दा किया गया है, और सूत्रों का संकेत दिया गया है। विश्वसनीय उद्दा और जानकारी प्रकाशित करने के लिए उचित प्रयास किए गए हैं, तेकिन लेखकों और प्रकाशक सभी सामग्रियों की वैधता के लिए जिम्मेदारी नहीं ले सकते।

प्रकाशक की लिखित अनुमति के बिना, न तो यह पुस्तक और न ही किसी भी हिस्से को किसी भी रूप में या किसी भी तरह से, किसी मा हिस्स का क्या । एवं न पा । कसा भा तरह से इलेक्ट्रॉनिक या मैकेनिकल, फोटोकॉपी, माइक्रो फिल्मिंग और रिकॉर्डिंग, या किसी भी जानकारी भंडारण या पुनर्प्राप्ति प्रणाली में प्रेषित नहीं किया जा सकता है।

स्वराँजित प्रकाशन की सहमित सामान्य वितरण, नकल के लिए, प्रचार के लिए, नर कामों के निर्माण के लिए, या पुनर्विक्रय के लिए नहीं है।इस तरह की प्रतिलिपि के लिए स्वराँजित प्रकाशन से लिखित मे विशिष्ट अनुनति प्राप्त की जानी चाहिए।

#### शिक्षा के मनोवैज्ञानिक आधार

ISBN: 978-93-5470-752-0

Price: 499/-

िलाब और कवर दिजादन स्वराँजित डिजाइन सौल्युशन

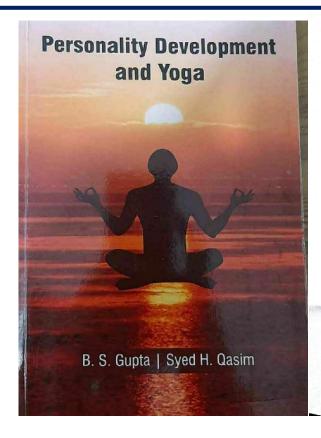
मुद्रण- स्वराँजलि ऑफसेट प्रिंटर्स





(A Constituent P.G. College, University of Allahabad)
Under the Strengthening Component of DBT Star College Scheme

Website: www.cmpcollege.ac.in



## Personality Development and Yoga

**Edited By** 

Dr. B. S. Gupta

Deptarment of Education CMP College University of Allahabad Prayagraj, U.P.

&

#### Dr. Syed H. Qasim

Department of Teacher Education Allahabad School of Education Sam Higginbottom University of Agriculture Technology and Sciences Prayagaraj, UP

Nitya Publication, Bhopal





137

(A Constituent P.G. College, University of Allahabad)

Under the Strengthening Component of DBT Star College Scheme

Website: www.cmpcollege.ac.in



#### First Edition 2020

This book or any part thereof may not be reproduced in any form without written permission of the publisher.

#### Publisher's Disclaimer

Due care has been taken while publishing this book, but the Author, Publisher; Printers are not responsible in any manner for any mistake that may have inadvertently crept in.

#### All rights reserved

No part of this book may be reprinted or reproduced or utilized in any form or by any electronic, mechanical, or other means, now known or hereafter invented, including photocopying and recording, or in any information storage or retrieval system without permission in writing from the publishers.

without permission in writing from the publishers.

Any comments or suggestions should be sent to author and no other place including public domain.

ISBN: 978-93-90390-10-6

Price: Rs. 499/-

#### Published by:

### NITYA PUBLICATIONS

Gulmohar, Bhopal MP India web: www.nityapublications.com Email: info@nityapublications.com Ph.No.: +91-900-929-1840 15

#### योग दर्शन की शैक्षिक समझ

डाँ० प्रिया सोनी खरे \*

सम्पूर्ण विश्व का मार्गवर्शन भारत, योग को केन्द्र मानकर करता आया है। योग भारत की सनातन परम्परा का अभिन्न अंग है और इस परम्परा को सम्पूर्ण विश्व में शिक्षा वर्शन के रूप में सुसंगठित रूप से स्थापित करने का श्रेय महर्षि पतंजवित को जाता है। योग के व्यावहारिक पक्ष की ओर ध्यान आकृष्ट करके अष्टांग योग द्वारा परमसत्ता से साक्षात्कार का मार्ग महर्षि पतंजित ने ही स्पष्ट किया है। योग वर्शन के अनुसार विस्तवृत्तियों का निराध, मोक्ष की प्राप्ति ही मानव जीवन का लक्ष्य है।

#### योग का अर्थ

योग शब्द की उत्पत्ति 'युज' धातु में 'धन्न' प्रत्यय जोड़ने से हुई है. जिसका अर्थ है 'समाधि । योग एक क्रियात्मक विज्ञान है, जिसके प्रमुख प्रणेता आचार्य पर्तजालि को माना गया है। महर्षि पतन्जलि का योग सूत्र इसका प्राचीनतम यंथ है। हस्तिण योग सूत्रों को पतन्जलि दर्शन कहा जाता है। पतंजलि का योग सूत्र चार मार्गों में विश्वतन है—

- समाधि पाद इसमें योग का स्वरूप, विशेषता, उद्देश्य, चितवृत्ति निरोध, घ्यान केन्द्रित करने के उपायों के बारे में बताया गया है।
- साधना पाद इसमें क्रिया योग, कर्मफल, दुख का स्वाभाव का वर्णन किया गया है।
- 3. विभूति पाद इसमें योग की उच्च अवस्था और सिद्धियों का वर्णन कैया गया है।
- 4. कैवल्य पाद इसमें मुक्ति मार्ग और परमात्मा की व्याख्या की गयी है।

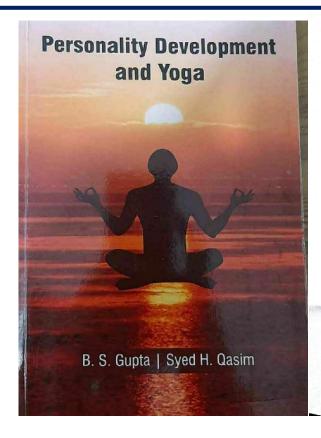
\*शिक्षाशास्त्र विमाग, सीO एमO पीO कॉलेज इलाहाबाद विश्वविद्यालय, प्रयागराज ।





(A Constituent P.G. College, University of Allahabad)
Under the Strengthening Component of DBT Star College Scheme

Website: www.cmpcollege.ac.in



## Personality Development and Yoga

**Edited By** 

Dr. B. S. Gupta

Deptarment of Education CMP College University of Allahabad Prayagraj, U.P.

&

#### Dr. Syed H. Qasim

Department of Teacher Education Allahabad School of Education Sam Higginbottom University of Agriculture Technology and Sciences Prayagaraj, UP

Nitya Publication, Bhopal

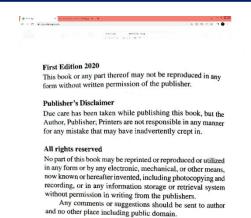




(A Constituent P.G. College, University of Allahabad)

Under the Strengthening Component of DBT Star College Scheme

Website: www.cmpcollege.ac.in



ISBN: 978-93-90390-10-6

Price: Rs. 499/-

#### Published by:

### NITYA PUBLICATIONS

Gulmohar, Bhopal MP India web: www.nityapublications.com Email: info@nityapublications.com Ph.No.: +91-900-929-1840

#### Contents

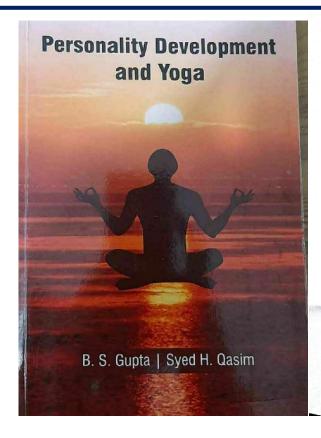
1. Personality: Development and its Dimensions	01
2. Yoga Education and Social Re-development	07
3. Teaching Learning System and Yoga	13
4. Holistic Personality Development through Ashtanga Yoga	25
5. Health, Wellness and Fitness	37
6. Personality Development through Yoga	49
7. Physical Fitness through Walking and Yogasana	55
8. Mental Health and Yoga	69
9. Yoga: Physiological and Psychological Well Being	79
10. Impact of Yoga on Mental Health of Adolescents	91
11. Yoga: Basis of Stress Free Life	99
12. Yoga and Health	105
13. Awareness among Pupil Teachers towards Yoga	
Practice in Schools	115
14. योग का दार्शनिक आधार	127
15. योग दर्शन की शैक्षिक समझ	137
16. शिक्षा में योग का महत्त्व	145
17. दैनिक जीवन में योग का महत्व	153
18. योग एवं व्यक्तित्व विकास	163
19. कक्षा शिक्षण में योग की भूमिका	169
20. व्यक्तित्व के बहुआयामी विकास में योग की भूमिका	175
21. व्यक्तित्व के सर्वांगीण विकास में योग की भूमिका	187
22. योग की अवधारणा का व्यक्तित्व विकास में योगदान	195





(A Constituent P.G. College, University of Allahabad)
Under the Strengthening Component of DBT Star College Scheme

Website: www.cmpcollege.ac.in



## Personality Development and Yoga

**Edited By** 

Dr. B. S. Gupta

Deptarment of Education CMP College University of Allahabad Prayagraj, U.P.

&

#### Dr. Syed H. Qasim

Department of Teacher Education Allahabad School of Education Sam Higginbottom University of Agriculture Technology and Sciences Prayagaraj, UP

Nitya Publication, Bhopal





(A Constituent P.G. College, University of Allahabad)

Under the Strengthening Component of DBT Star College Scheme

Website: www.cmpcollege.ac.in



#### First Edition 2020

This book or any part thereof may not be reproduced in any form without written permission of the publisher.

#### Publisher's Disclaimer

Due care has been taken while publishing this book, but the Author, Publisher; Printers are not responsible in any manner for any mistake that may have inadvertently crept in.

#### All rights reserved

No part of this book may be reprinted or reproduced or utilized in any form or by any electronic, mechanical, or other means, now known or hereafter invented, including photocopying and recording, or in any information storage or retrieval system without permission in writing from the publishers.

Any comments or suggestions should be sent to author and no other place including public domain.

ISBN: 978-93-90390-10-6

Price: Rs. 499/-

#### Published by:

NITYA PUBLICATIONS

Gulmohar, Bhopal MP India web: www.nityapublications.com Email: info@nityapublications.com Ph.No.: +91-900-929-1840 5

#### Health, Wellness and Fitness

Dr. Jitendra Kumar\* and Kratika Nigam\*\*

Many factors influence an individual's behavior. Healthy lifestyle including healthy diet, regular exercise, stress management, and regular check-ups may help to reduce or eliminate the risk of diseases. The human body is designed to be exercised. Sedentary life style is associated with increased risk of disease and reduced functional capacity. Health benefits can be obtained through moderate level of regular physical activity for all ages.

The strangest thing in the world is that people spend all day

The strangest thing in the world is that people spend all day scrunched in a chair, be it to watch television, work on computer, or even to read. Its negative health influences include increased anxiety, cardiovascular disease, diabetes, depression and more. But if a person exercises, everything gets reversed.

Physiological factors play a dominant role in addition to the psychological preparation for the physical fitness. Regular exercise can also slow further deterioration in those who have already started to develop cognitive problems.

In order to help combat the trend towards sedentary living and increase in childhood and adult obesity, the Government review of physical education is focusing much attention on pupils learning about the value of healthy, active lifestyles and then being helped to make informed choices about lifelong physical activity. This requires clarification of the knowledge base and creative approaches to the pedagogies which help pupils value and adopt healthy, active lifestyles.

Physical movement is the basic language of the early childhood years. Moving about and physically exploring their immediate surroundings are the main ways young children learn about their

<sup>\*</sup>Department of Education, CMP College University of Allahabad, Paryagraj.

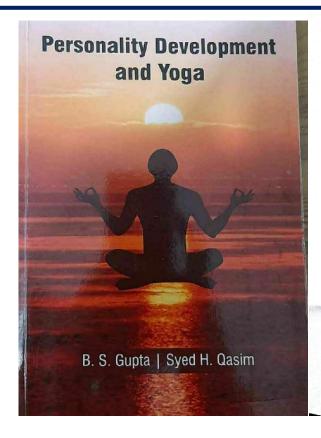
\*\*Reseach Scholar, Faculty of Education Integral University, Lucknow.





(A Constituent P.G. College, University of Allahabad)
Under the Strengthening Component of DBT Star College Scheme

Website: www.cmpcollege.ac.in



## Personality Development and Yoga

**Edited By** 

Dr. B. S. Gupta

Deptarment of Education CMP College University of Allahabad Prayagraj, U.P.

&

#### Dr. Syed H. Qasim

Department of Teacher Education Allahabad School of Education Sam Higginbottom University of Agriculture Technology and Sciences Prayagaraj, UP

Nitya Publication, Bhopal

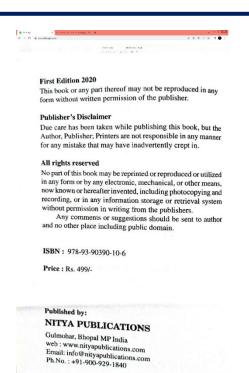




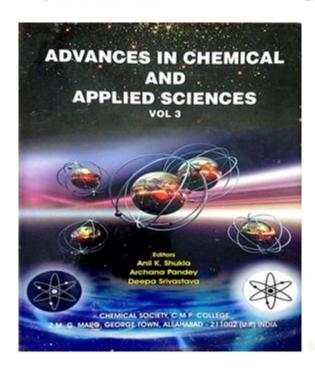
(A Constituent P.G. College, University of Allahabad)

Under the Strengthening Component of DBT Star College Scheme

Website: www.cmpcollege.ac.in



#### Contents 1. Personality: Development and its Dimensions 2. Yoga Education and Social Re-development 3. Teaching Learning System and Yoga 4. Holistic Personality Development through Ashtanga Yoga 25 5. Health, Wellness and Fitness 6. Personality Development through Yoga 49 7. Physical Fitness through Walking and Yogasana 8. Mental Health and Yoga 9. Yoga: Physiological and Psychological Well Being 10. Impact of Yoga on Mental Health of Adolescents 11. Yoga: Basis of Stress Free Life 12. Yoga and Health 105 13. Awareness among Pupil Teachers towards Yoga 115 Practice in Schools 14. योग का दार्शनिक आधार 127 15. योग दर्शन की शैक्षिक समझ 137 16. शिक्षा में योग का महत्त्व 145 17. दैनिक जीवन में योग का महत्व 153 18. योग एवं व्यक्तित्व विकास 163 19. कक्षा शिक्षण में योग की भूमिका 169 20. व्यक्तित्व के बहुआयामी विकास में योग की भूमिका 21. व्यक्तित्व के सर्वांगीण विकास में योग की भूमिका 187 22. योग की अवधारणा का व्यक्तित्व विकास में योगदान



## 



# चौधरी महादेव प्रसाद महाविद्यालय





(A Constituent P.G. College, University of Allahabad)

Under the Strengthening Component of DBT Star College Scheme

231

Website: www.cmpcollege.ac.in

Advances in Chemical and Applied Sciences - Vol 3 Editors: Antl. K. Shiskli, Archana Pandey, Deepa Srivationa ISBN: 978-93-88018-19-7 Edition: 2020

#### Construction and Standardization of Biology Achievement Test for Higher Secondary Students

Dilip Kumar Singh

School Biology is a subject of living reality. Children from the very beginning start observing plant and animal life. Later on, in the higher secondary classes, its study further broadens their outlook. They learn analysis, observation of new facts, criticism, inference, application of new knowledge and thus gather better understanding of the subject matter. Each and every aspect in the Biological Science helps us in our day to day living. Study of some plants and animals helps in the understanding of other plants, animals and finally the human beings. Study of Biology helps us in the growth or procurement of food for mankind

mankind.

Achievement test was constructed on the basis of the objectives of teaching; knowledge, understanding, application and skill in Biology at Higher Secondary level. Many achievement tests are already available in Biology. Before constructing achievement test investigator first reviewed achievement test available in the field of Biology. After reviewing them, need was felt to develop an achievement test based on the latest syllabir recommended by U.P. Board for Biology at XI level. Text books of Biology were utilized as source for framing items. The Biology text book was studied thoroughly and concepts were understood, Questions were selected with the help and advice of subject experts and also by choosing repeated questions by verifying many question banks afforts were put to identify the important units of Biology at XI level. On this basis preliminary draft was prepared. Items are framed in the form of multiple shoice questions. This test is prepared and standardized having following steps-

- 1. Planning of the test
- Preparation of the test Administration of the test Item Analysis
- Standardization of Achievement test

Planning of a test is a first and very important step in the construction of an achievement test. A standardized achievement test needs very careful

Assistant Professor Department of Education

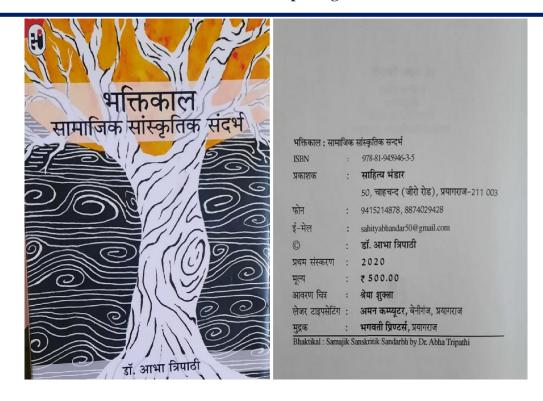
(M) Degree College (A constituent PG College
oft Poversity of Allahabad) Prayagraj (U. P.) Incha

Email: dibpk2au@gmail.com





(A Constituent P.G. College, University of Allahabad)
Under the Strengthening Component of DBT Star College Scheme

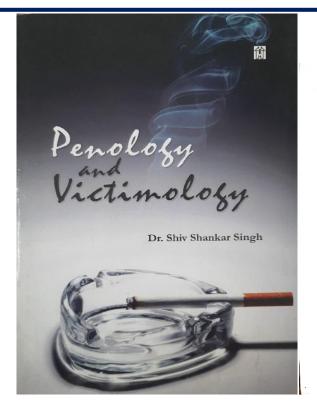






(A Constituent P.G. College, University of Allahabad)
Under the Strengthening Component of DBT Star College Scheme

Website: www.cmpcollege.ac.in



# Penology & Victimology Dr. Shiv Shankar Singh Associate Professor Head, Faculty of Law C.M.P. College University of Allahabsul Prayagesi

University Book House Pvt. Ltd., Jaipur





(A Constituent P.G. College, University of Allahabad)

Under the Strengthening Component of DBT Star College Scheme

Website: www.cmpcollege.ac.in

#### Published by : University Book House (P) Ltd.

79, Chaura Rasta, Jaipur Phone: 0141-2311466, 2313382 E-mail: uni\_bookhouse@yahoo.com Website: www.universitybookhouse.in

ISBN: 978-81-942467-7-0 First Edition: 2020

@ Author

Lasertype Setting & Printer

Bhumi Graphics & Saloni Offset Printers, Jaipur

All right reserved. No part of this work may be copied, adapted, abridged or translated, stored in any retrieval system, computer system, photographic or other system or transmitted in any form by any means whether electronic, mechanical, digital, optical, photographic or otherwise without a prior written permission of the copyright holders. M/s University Book House (P) Ltd., Jaipur.

This book is sold subject to the condition that it, or any part of it, shall not by way of trade or otherwise, be sold, re-sold, displaying, advertised, or otherwise circulated, without the publisher's prior written consent, in any form of binding, cover or title other than that in which it is published and without a similar condition including this condition being imposed on the subsequent purchaser(s).

Any breach of any of these rights or conditions will entail civil and criminal action without further notice.

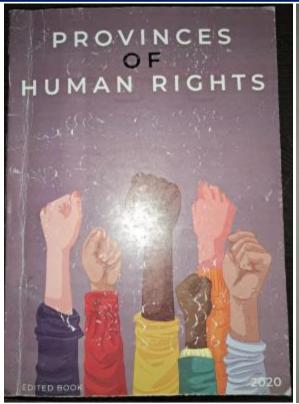
While every effort has been made to avoid any mistake or omission, this publication is being sold on the condition and understanding that neither the author nor the publishers or printers would be liable in any manner to any person by reason of any mistake or omission in this publication or for any action taken or omitted to be taken on advice rendered or accepted on the basis of this work.

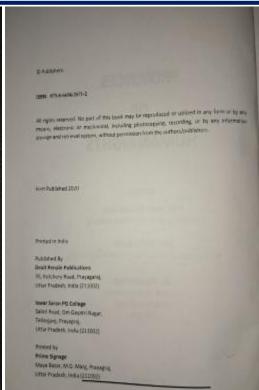
Rights of Publication reserved with the Publishers.





(A Constituent P.G. College, University of Allahabad)
Under the Strengthening Component of DBT Star College Scheme









(A Constituent P.G. College, University of Allahabad)

Under the Strengthening Component of DBT Star College Scheme

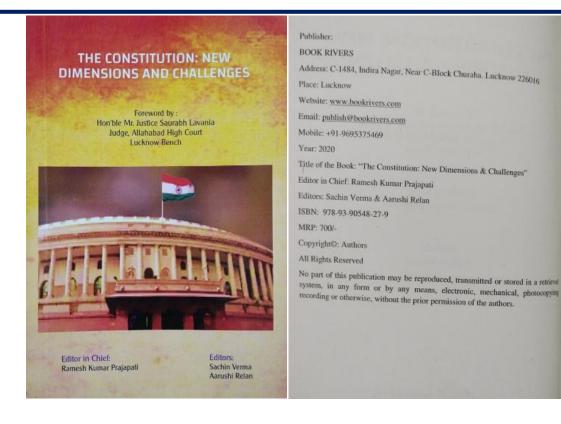






(A Constituent P.G. College, University of Allahabad)

Under the Strengthening Component of DBT Star College Scheme







(A Constituent P.G. College, University of Allahabad)

Under the Strengthening Component of DBT Star College Scheme

Website: www.cmpcollege.ac.in

अध्याय— 26 भारतीय संविधान और असंगठित क्षेत्र में कार्यरत कामगार : एक सामाजिक–विधिक अध्ययन

> स्वतः
> स्मेश कृमार भागी
> असिस्टेट प्रोफेसर, विशे शिवा
> सीठ एमठ पीठ विशी असिक इस्ताहाबाद विश्वविद्यालय, प्रयासक एर असिस्टेट प्रोकेसर, विशि विभाग सीठ एमठ पीठ विशी असिक इलाहाबाद विश्वविद्यालय, प्रयासक सीठ एमठ पीठ विशी असिक इलाहाबाद विश्वविद्यालय, प्रयासका

महत्वपूर्ण शब्दावसी- भारत का संविधान, गोलिक अधिकार, राज्य के नीति-निदेशक तर्च आर्थिक, सामाजिक और राजनैतिक त्याय, अम, असंगिद्धता अभिक, समाजि कल्याण, अभिक क्षित्र सामाजिक सुरक्षा, लोक कल्याणकारी राज्य इत्यादि।

प्रस्तावना- भारतीय संविधान का अध्ययन करने पर यह पाया गया कि इसका मुखा उद्देश्य भारत के समस्त नामरिकों को गरिभागय जीवन प्रदान करना है। गरिभागय जीवन प्रतान करने के लक्ष्य को प्राप्त करने के लिए यहां की जनता हेतु आर्थिक, सामाजिक व राजन्त्रीक जांग सुलम कराने की महती आवश्यकता है। राजनीतिक न्याय सुलम कराने में हमारे सरकारों ने डकी

## कोविड-19 काल

के तनाव प्रबन्धन में भारतीय संगीत का समसामयिक चिन्तन



संपादक डॉ० इभा सिरोठिया





(A Constituent P.G. College, University of Allahabad)

Under the Strengthening Component of DBT Star College Scheme

Website: www.cmpcollege.ac.in

आर्थकत्वा डिग्री कॉलेज की ओर से दिशा इन्टरनेशनल पश्चिमिशंग हाजस द्वारा प्रकाशित, विकी एवं नितरित

भी पंकज जायसवाट । प्रकर्ण भ्यक्ष, शासी निकाय गर्यकन्या दिग्नी कॉलेज प्रयागराज

प्राचार्या, आर्य कन्या डिग्री कॉलेज प्रयागराज





DISHA INTERNATIONAL PUBLISHING HOUSE

31-S, Bhunna Taga, P.S. Rabupura, Greater Noida-203209 (INDIA) Mob.: 7080806934, 9760316934

Mod. : 1000000004, 9100010904 E-mail : dishainternationalpublishing@gmail.com Website : www.dishainternationalpublishing.com

amazon.in



 आर्थकत्या दियो कॉलेज प्रयागराज ISBN:978-93-87002-70-8

All rights are reserved with the publisher, editors, including the right to translate or reproduce this book or parts thereof except for brief quotations in critical or reviews.

Printed by Disha International Publishing House



#### संगीत चिकित्सा

डाँ० रश्मि गुप्ता (संगीत विभागाध्यक्ष), सी0एम0पी0 पी0जी0 कालेज, प्रयागराज (उ०५०)

संगीत नैसर्गिक रूप से इदय के संवेगों एवं भावनाओं को प्रकट करने की कला है और इसलिए स्थात प्रतासिक पर अपना प्राप्त है। इस्य के उद्गार कलाकार के व्यक्तित्व एवं अन्तःक्राण क इसे सर्वश्रेष्ठ लिला कला का स्थान प्राप्त है। इस्य के उद्गार कलाकार के व्यक्तित्व एवं अन्तःक्राण क वर्णन करते हैं और कलाकार आगी कला के माध्यम से धरम आनन्द एवं मोख प्राप्त करने की नेध्य करता है।

संगीत आत्मा की औषधि तथा भावाभिव्यक्ति का सशक्त सौन्दर्यमय माध्यम है। आज के तनवग्रत समाज में संगीत औषधि के समान कारगर सिद्ध हो सकती है। आधुनिक युग में विषाद एक महत्वपूर्ण स्वास्थ्य की समस्या है। संयुक्त परिवारों का विखण्डन और एकाकी परिवारों का बढ़ता मोह-जाल इस समस्या में इजाफा करते जा रहे हैं। मानसिक रोग इस सदी की सबसे विकट समस्या है। इसके आर्नाक मानसिक तनाय अथवा किसी बाहरी कारण जैसे प्रिय व्यक्ति का वियोग, महत्वपूर्ण वस्तु का खो जन. परीक्षा में इच्छित सफलता न मिलना आदि से सदमा पहुँचने पर तीच्च उदासीनता की मनःस्थिति आ जती है और लम्बे समय तक चलती है।

संगीत विभिन्न प्रकार के भावों का निर्माण कर मानव- मन व शरीर पर गहरा असर करता है इस् प्रभावोत्पादक क्षमता का प्रयोग जब चिकित्सा के रूप में शारीरिक एवं मानसिक संतुलन को व्यवस्थित <sup>करन</sup> के उद्देश्य से किया जाता है तो यह प्रभावात्मक प्रक्रिया संगीत चिकित्सा के नाम से जानी जाती है।

संगीत चिकित्सा केवल आलेख का विषय नहीं रह गया है बल्कि आज यह समूचा विषय प्रवेत और प्रभाव में लाने की अवस्था में हैं। प्राप्त आँकड़े तेजी से एकत्रित किए जा रहे हैं और हमारी प्रार्थन पद्धति धीरे-धीरे आधुनिक विज्ञान में तब्दील होती जा रही है।

सांगीतिक चिकित्सा के दृष्टिकोण से यदि हम हमारे प्राचीन सांगीतिक इतिहास पर दृष्टि झर्ले ग्री — — च ग्री त्पामाणक प्राप्तकारक्षा क द्राष्ट्रकाण स यदि हम हमारे प्राचीन संगीतिक इतिहास पर द्राष्ट्र करने हम पाते हैं कि संगीत पर्व चिकित्सा का यह सम्बन्ध बहुत ही प्राचीन है एवं मनुष्य ने बहुत समार्थ ही संगीत के विकास संगीत के चिकित्सकीय उपयोग के विषय में जानकारी हासिल कर ली थी एवं उसका उपयोग चि<sup>किता है</sup> कर में जानकार के चिकित्सकीय उपयोग के विषय में जानकारी हासिल कर ली थी एवं उसका उपयोग चि<sup>किता है</sup> करा में करने थें

सर्वप्रथम संगीत के चिकित्सकीय प्रयोग का उल्लेख हमें ताम्र युग में मिलता है। "जब की वैप्रण पड़ता था तो लोग उसे दवा नहीं देते थे, बल्कि संगीत द्वारा ही उसका उपचार करते थे और उस संविद्या

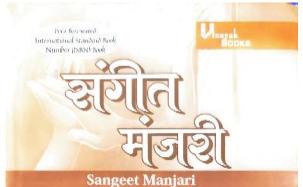




(A Constituent P.G. College, University of Allahabad)

Under the Strengthening Component of DBT Star College Scheme

Website: www.cmpcollege.ac.in





डॉ. गीरव शुक्ल डॉ. स्माति शर्मा

श्री विनासक पब्लिकेशन, आगरा

प्रकाशक

श्री विनायक पब्लिकेशन

229, शास्त्रीपुरम, सिकन्दरा, आगरा-282 007 ( उ. प्र.)

मोबाइल : 9412458170, 9893635398

E-mail: info@vinayakpublishers.com

shreevinayakpublication2009@gmail.com

Visit us: www.vinayakpublishers.com

C सम्पादकगण

प्रथम संस्करण : 2020

Code : R0012

ISBN: 978-81-948717-8-1

मूल्य : ₹ 499/-

शब्द संयोजन एवं मुद्रक : श्री विनायक पब्लिशिंग सूनिट, आगरा

No part of this publication may be reproduced, stored in a retrieval system of transmitted, in any form or by any means, mechanical, photocopying recording, or otherwise, without prior written permission of the publisher. Vinayak has obtained all the information in this book from the sources believed to be reliable and true. However, Vinayak or its editors or Author don't take any responsibility for the absolute accuracy of any information published and the damages or loss suffered thereupon. All disputes subject to Agra Jurisdiction only.

For further information about the books published By Vinayak kindly lon on to www.vinayakpublishers.com or email to shreevinayakpublication 2009@gmail.com.





(A Constituent P.G. College, University of Allahabad)

Under the Strengthening Component of DBT Star College Scheme

Website: www.cmpcollege.ac.in

5

## वर्तमान समय के परिप्रेक्स में संगीत शिक्षण का स्वरूप

*डॉ. रश्मि शूचा* (जीसटेन्ट ग्रोफेसर, असिस्टेन्ट ग्रोफेसर, विभागाध्यक्ष (अंगोत विभाग) सी. एम. पी. पी. जी. कालेन, प्रयागस्त्र (ऊ. पू.)

विश्व के मूल में निहित समिन्निया आगन्द का मागव के लिए अभिव्यक्ति रूप संगीत या नाद है। उस मभुनाद आनन्द की अभिया संगीत के तरीगत स्वर्ध को लहरियाँ हैं। येद विश्वा के अनुसार रून्दोमयी अनुभूति हो सुन्धि है। यह समस्त विश्व रून्द की सर्विप्रथम विश्व के संगीत का आदितीय उपशर प्रदान किया है। प्राचीनकाल से ही संगीत समाज तथा संस्कृति का अदितीय उपशर प्रदान किया है। प्राचीनकाल से ही संगीत समाज तथा संस्कृति का अभिन्न अंग रहा है। भारतीय मभीध्यों ने इसे इदयगत भावों को प्रकट करने का सफल साधन मानते हुए धर्म, अर्थ, काम और भोश्व की प्राप्ति का सर्वोत्तम उपाय माना है। इस लक्ष्य को प्राप्त करने के लिए इसकी विधिवत् विश्वा का होना आवश्यक है। जब संगीत शिक्षा की बात करते हैं तो इसका अर्थ शास्त्रीय संगीत से ही होता है।

संगीत शिक्षा था सीखने का अर्थ इसके क्रियात्मक व शास्त्रीय रूप के राभी पहलुओं के अध्ययन से हैं। स्वर, लय, ताल का ज्ञान, स्वरों की बारीकियाँ, रागों का विस्तृत ज्ञान, ये ऐसी मूल जातें हैं, जिनका होने पर ही राज्ये अर्थों में संगीत सीखना कहा जा सकता हैं नई टेक्नोलॉजी के संदर्भ में संगीत शिक्षा समझने के लिए पहले

संगीत मंजरी | 31





(A Constituent P.G. College, University of Allahabad)

Under the Strengthening Component of DBT Star College Scheme

Website: www.cmpcollege.ac.in

कोविड-19 काल के तनाव प्रबन्धन में भारतीय संगीत का समसामयिक चिन्तन

> संपादक. इिंठ इया सिरोडिया एसोसिएट प्रोफेसर,संगीत गायन विभागाध्यक्ष संगीत विभाग आर्थकच्या डिग्री कलिज

DISHA INTERNATIONAL PUBLISHING HOUSE

is the field with that unablan ोडमा (नारपणना पश्चिमांशास हाउस द्वारा प्रकाणित, पिक्टो एवं जितरित द्धा चंत्रक जापसमाल भागम, भासी निकास आर्थसाणा विभी कॉलीज प्रयागस्त्र ६१० रमा स्थित प्राचार्या आर्थ कन्या दिसी कॉलेंज प्रयागसर्थ प्रथम सल्बारण : 2020

Published by DISHA INTERNATIONAL PUBLISHING HOUSE

31-S. Bhunna Taga, P.S. Rabupura, Greater Noida-203209 (INDIA) Greater Noida-2003, 9760316934 Mob.: 7080806934, 9760316934 E-mail: dishainternational publishing@gmail.com

Website: www.dishainternationalpublishing.com

Also Available at:

amazonin



 आयंकन्या टिग्री कालेज प्रयागराज ISBN:978-93-87002-70-8

All rights are reserved with the publisher, editors, including the right to translate or reproduce this book or parts thereof except for brief quotations in critical or reviews.

Printed by Disha International Publishing House





(A Constituent P.G. College, University of Allahabad)

Under the Strengthening Component of DBT Star College Scheme

Website: www.cmpcollege.ac.in



#### संगीत - शिक्षण के क्षेत्र में संचार क्रांतिः कोरोना काल के विशेष संदर्भ में

क्0 आकाश्या पाल, शोध क्रापा, संगीत एवं प्रदर्शन कला विभाग, इलाहाबाद विश्वविद्यालय, इलाहाबाद

हमार्ग भारतीय संस्कृति विश्वत की सर्च प्रशासित एवं अत्यन्त प्रभीनताम संस्कृति है। संस्कृति से मूल्यों को हमा-विश्वत में बीपमा करना का कृतित्व है। करनाओं में अंदर लांतित करनाएं और लांतित बराताओं में सर्वश्रेष्ठ संगीत एकमार्थ ऐसी करना है जो मानन पावाआओं की अगियार्जन का सामग्र एवं सुरुपता सामग्र है। संभीत मानव के साथ साथ आदिय सुग से आपुंगिक सुग तक प्रशास होते हैं। संभ मानव हुए के के कीमताम प्रकृतिक से अनुनित होता है। सर्वात हुए के कीमताम प्रकृतिक से अगित है। सर्व मानव हुए के कीमताम प्रकृतिक से अनुनित होता है। सर्वात अग्र करना स्वत्व हुए स्वयं स्वयं है। संभीत अपनी साथीयता और कहणा से मन की भाव-विभीत कर देता है।

कला सौन्दर्य की प्रतीक एवं आत्मा की सच्ची पुकार है। कला आत्माणिक्यक्ति है।" -रॉबन्द्रनाश्च टैगी

मानय इतिहास के आदि काल से ज्ञान का विविध रूप में विकास और प्रसार होता रहा है। प्रत्येक देश अपनी सामाजिक, सांस्कृतिक अस्मिता को ऑफिब्यिक देने, सम्भन्न एवं सशक्त होना तथा साथ हो समय की चुनीवियों का सामना करने हेतु प्रयास करता है। सामाज के हर वर्ग को अपने सर्पित साथवाँ का उपयोग करते द्वरूए लाभ पहुँचाने का लक्ष्य निर्भाति करता है। उस लक्ष्य तक पहुँचने का प्रमुख साधन है शिक्षा। शिक्ष व्यक्ति के विकास का आनस्पत्रक साधन है। यहाँ आधीं में शिक्षा समाज में अनवस्त्र चलने वाली प्रक्रिका है। निव्यंदेक यह शिक्षा ही है जो मानव को प्रशासन प्रमुक्ति में हैं क्रिया उठावतर सहय एवं सामाजिक प्राणी अमति है साथ हो शिक्षा वे ही माध्यम से समाज अपनी सम्भवत व संस्कृति को रक्षा करते हुए उसे एक पीड़ी है दसरी गीड़ी को स्थानवर्तित करते हैं।

प्राचीन शिक्षा प्रन्थों में भी इस बात के प्रमुख प्रमाण है कि प्राचीनकाल में संगीत-शिक्षण अपने सरमोत्कर्ष पर था। मुरू का शिष्य का विद्याद्यन करना तथा। शिष्य के द्वारा शिक्षा प्रप्रण करने की प्राप्ता ही शिक्षा का मुख्य उद्देश्य थी। 2 विशेष रूप से याँच देखा जाए तो संगीतालगंत शिक्षण की यह प्रणाती प्राचीन काल से लेकर आधुनिक काल कर चलती जा रही

आज संगीत के संस्थागत शिक्षण के प्रचार ने संगीत की संवादात्मक प्रयोजनीयता को बक्तवा दिया

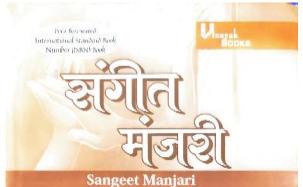




(A Constituent P.G. College, University of Allahabad)

Under the Strengthening Component of DBT Star College Scheme

Website: www.cmpcollege.ac.in





डॉ. गीरव शुक्ल डॉ. स्माति शर्मा

श्री विनासक पब्लिकेशन, आगरा

प्रकाशक

श्री विनायक पब्लिकेशन

229, शास्त्रीपुरम, सिकन्दरा, आगरा-282 007 ( उ. प्र.)

मोबाइल : 9412458170, 9893635398

E-mail: info@vinayakpublishers.com

shreevinayakpublication2009@gmail.com

Visit us: www.vinayakpublishers.com

C सम्पादकगण

प्रथम संस्करण : 2020

Code : R0012

ISBN: 978-81-948717-8-1

मूल्य : ₹ 499/-

शब्द संयोजन एवं मुद्रक : श्री विनायक पब्लिशिंग सूनिट, आगरा

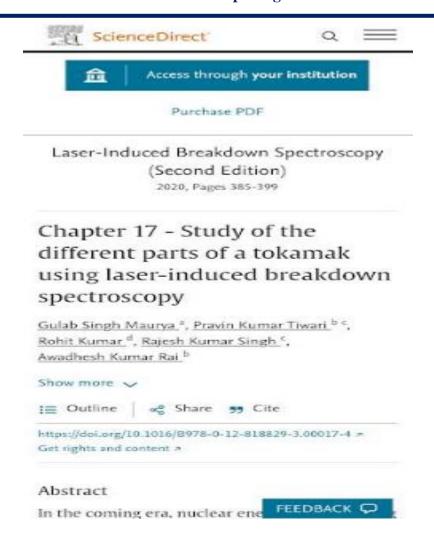
No part of this publication may be reproduced, stored in a retrieval system of transmitted, in any form or by any means, mechanical, photocopying recording, or otherwise, without prior written permission of the publisher. Vinayak has obtained all the information in this book from the sources believed to be reliable and true. However, Vinayak or its editors or Author don't take any responsibility for the absolute accuracy of any information published and the damages or loss suffered thereupon. All disputes subject to Agra Jurisdiction only.

For further information about the books published By Vinayak kindly lon on to www.vinayakpublishers.com or email to shreevinayakpublication 2009@gmail.com.





(A Constituent P.G. College, University of Allahabad)
Under the Strengthening Component of DBT Star College Scheme

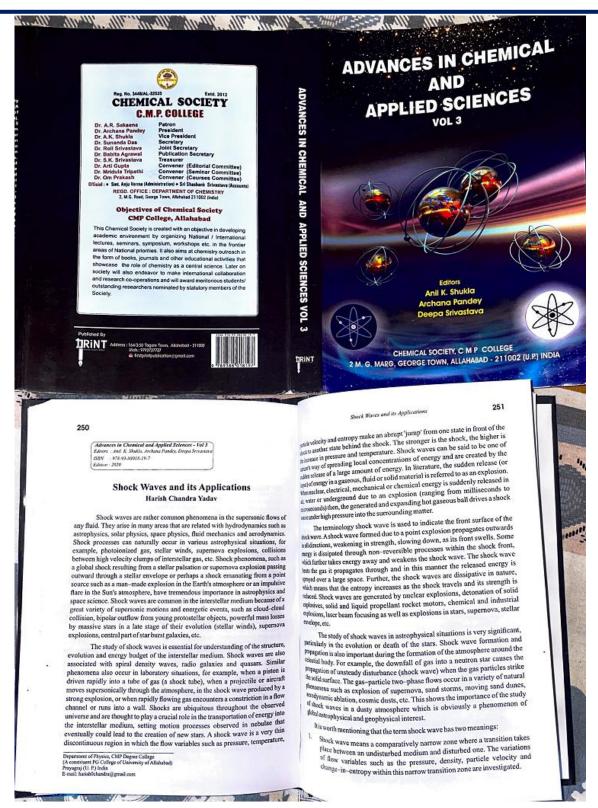






(A Constituent P.G. College, University of Allahabad)

Under the Strengthening Component of DBT Star College Scheme



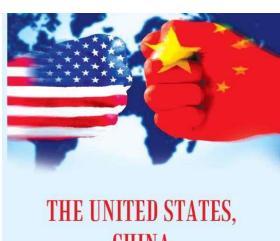




(A Constituent P.G. College, University of Allahabad)

Under the Strengthening Component of DBT Star College Scheme

Website: www.cmpcollege.ac.in



THE UNITED STATES,

CHINA

AND THE CONTEST

FOR SUPREMACY IN THE

ASIA-PACIFIC



Dr Govind Gaurav

The United States, China and the Contest for Supremacy in the Asia-Pacific

#### © Govind Gauray

The book is partially based on the doctoral research of the author, which was awarded and recommended for publication by Banaras Hindu University.

All rights reserved. No part of this book may be reproduced, stored in a retrieval system or transmitted, in any form by any means, electronic, mechanical, magnetic, optical, chemical, manual, photocopying, recording or otherwise, without the prior written consent of its writer and publisher.

First Published 2020

#### ISBN: 978-93-88536-45-5

The opinions/views expressed in this book are solely of the authors and do not represent the opinions/standings/thoughts of Pacific Books International.

Published by:

Pacific Books International

108, First Floor, 4832/24, Prahlad Street,

Ansari Road, Darya Ganj, New Delhi - 110 002

Ph.: 011-23268444, Mob.: 9212526400

e-mail: pacificbooks@rediffmail.com

pacificbooksinternational@gmail.com Website: www.pacificbookinternational.com

Typesetting by : Sanya Computers

Delhi

Printed at :

Roshan Digital Printing

Delhi

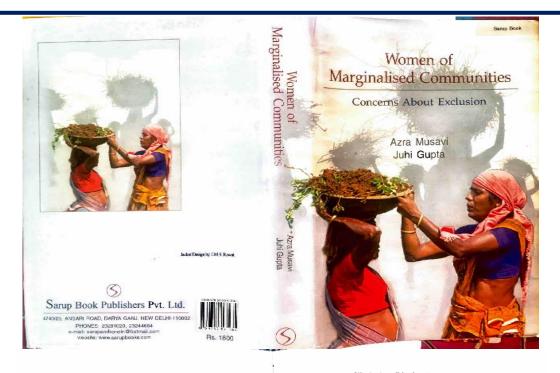




(A Constituent P.G. College, University of Allahabad)

Under the Strengthening Component of DBT Star College Scheme

Website: www.cmpcollege.ac.in



10

Reconfiguration of Patriarchy as Related to Mental Health of Educated Elderly Women in Uttar Pradesh

RUCHIKA VARMA

The patriarchial structure of Instain society is in a period of transition. The sources's movement all once the world forigid for opposit atoms for women by reclaiming under dominations and patriarchial structures. With their persistent quality domination and patriarchial structures. With their persistent quality domination and instances of the present paper studies the militims and ideologies of patriarchy in the district source of Allahabad City in North Insta and its relation to their text-length of their partial partial partial production of their partial partial partial production of their contractions of their contraction of their partial partial production of their partial partial productions. Here there is understood and their partial partial production of the researches dome in the area of mental health of siderly women.

Kaywords: elderly women, mental health partriarchy, Allahabad well buce

Recogligarisation of Patriarity in Related to Montal Hoolth of Educated 147

#### Introduction

Introduction

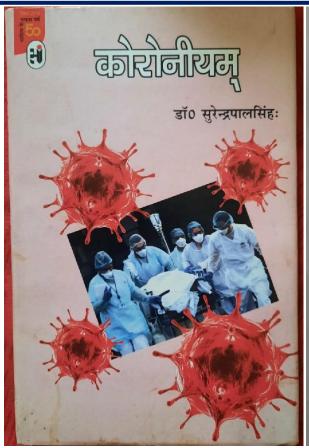
The process of women empowerment in the light of changing patriarchal ideologies in Indian society is changing patriarchal ideologies in Indian society is changing patriarchal ideologies in Indian society is undergoing transition. The women's movement has a long history in Indian society have not followed a chronological or linear pattern but have at all stoges involved a collage of influences pattern but have at all stoges involved a collage of influences pattern but have at all stoges involved a collage of influences pattern but have at all stoges involved a collage of influences pattern but have at all stoges involved a collage of influences pattern but have at all stoges involved a collage of influences pattern but have at all stoges involved a collage of influences are used to the offishors of this free ment which later on became the forement agenda of patriarchy. In the post-independence period, activists, was the question of challenging patriarchy. In the post-independence period, activists, was the question of challenging patriarchy. In the post-independence period, activists, was the question became from the public arena five almost twenty years. Till 1975, the time when the first World Conference on Women was held in Mexico, the issue of women's equality and their contribution to Development and Peace was raised, the traditional roles of women sequality and their contribution to Development and Peace was raised, the traditional roles of women of these norms, securities of women's health and education became women, the agenda of women's health and education became women, the agenda of women's health and education became women, the period from 1975-85 was declared as the landard was deat the committee reviewed and confused data or security known than the process of women's health and education became forms to be addressed by the University popularity known than the process of women's health and education became forms the process of women's health and education became forms the process of w





(A Constituent P.G. College, University of Allahabad)
Under the Strengthening Component of DBT Star College Scheme

Website: www.cmpcollege.ac.in



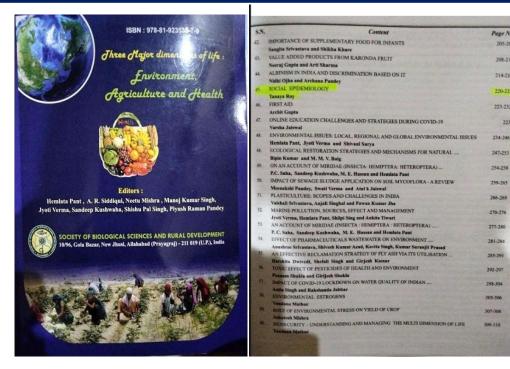
कोरोनीयम् ISBN 978-81-945946-2-8 प्रकाशक ः साहित्य भंडार 50, चाहचन्द (जीरो रोड), प्रयागराज-211 003 9415214878, 8874029428 ई-मेल sahityabhandar50@gmail.com डॉ. सुरेन्द्र पाल सिंह प्रथम संस्करण 2020 ₹ 275.00 लेजर टाइपसेटिंग : अमन कम्प्यूटर, बेनीगंज, प्रयागराज भगवती प्रिण्टर्स, प्रयागराज Coronium by Dr. Surendra Pal Singh

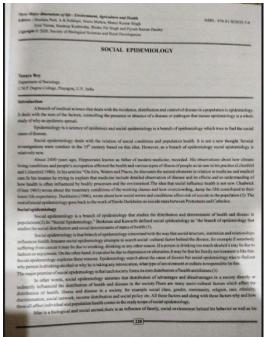




(A Constituent P.G. College, University of Allahabad)

Under the Strengthening Component of DBT Star College Scheme







# चौधरी महादेव प्रसाद महाविद्यालय

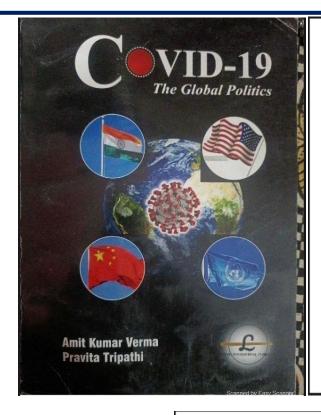
## C. M. P. DEGREE COLLEGE



(A Constituent P.G. College, University of Allahabad)

Under the Strengthening Component of DBT Star College Scheme

Website: www.cmpcollege.ac.in



Editors of the book

शिक्षाविद अमित कुमार वर्मा

गोल्ड मेडीलिस्ट 'शिक्षक श्री' सम्मानित

फार्मेसी विभाग, महात्मा ज्योतिबा फुले रोहिलखण्ड विश्वविद्यालय बरेली।

#### शिक्षाविद प्रविता त्रिपाठी

डिपार्टमेन्ट ऑफ पॉलीटिकल साइंस

स्व. आर.एन.एस. डिग्री कालेज सारवा कानपुर, उ.प्र.(मारत)

ISBN: 978-81-949147-2-3

No part of this edited book may be reproduced or transmitted in any form or by any means, electronic or mechanical, including photo copying, recording or by any information storage or retrival system, without permission in writing from the copyright owners.

The contributers or authors of each editying chapter are solely responsible for the contempolished in this edited book including plagarism. The publisher and editors of the book do not take any responsibility for the same, in any manners, Errors, if any, are purely unintentional and readers are requested to communicate such errors to the editors of publisher to avoid discrepancies in future.

#### Lexicon International Publisher

Katra, Tilhar, Shahjahanpur (U.P) Printed by

Hind Press, Bareilly (U.P)

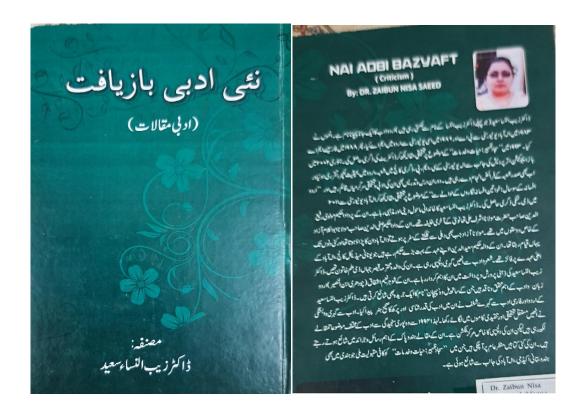
## COVID-19: विश्व व्यापार संगठन पर वैश्विक

विश्व व्यापार संगठन एक मात्र ऐसा अंतराष्ट्रीय संगठन है। जो देशों के बीच वैश्विक नियमों को तय करता है। WIO दुनिया भर के देशों के लिए बनाए गए व्यापार नियमों को नियंत्रित करता है। इसके सदस्य देशों के बीच होने वाले विवादों का भी निपटास करने का काम करता है। WTO दूरसंचार बैंकिंग सेवाओं के अलावा बौद्धिक सम्पदा अधिकार के व्यापार को भी अपने कामों में शामिल करता है। W10 का मुख्यालय जेनेवा में है इसके कुल 164 सदस्य देश है। भारत WTO की संस्था सदस्य में एक रहा है। WTO की बैठके आम तौर पर हर साल होती है। इसकी बैठकों में सभी सदस्य देशों के सदस्य शामिल होते हैं। आज COVID-19 की महामारी के चलते उत्पन्न परिस्थिति में इसकी सबसे ज्यादा जरूरत थी. क्योंकि इस महामारी का लाभ उठाकर पूरी दुनिया में भूमंडलीय करण विरोधी ताकते सक्रिय हो गई है। विश्व के बहुत से देशों का WTO जैसी बहुपक्षीय संस्थाओं से अपना विश्वास उठ रहा है, विश्व व्यापार संगठन की वार्ताएं अटक गई है। इसके विद्यादों ्र १० ८ । वश्य व्यापार सगठन का वाताए अटक गई है। इसके विवादों के निपटारें की भी व्यवस्था निर्जीव हो गई है। आज पूरी दुनिया में संस्कणवादी व्यापारिक गीतियों को बढ़ाया दिया या रहा है। इसी दौरान दुनिया की दो बढ़ी आर्थिक सांकियों बीन और अमेरिका के बीच तकनीकी व्यापार युद्ध बल रहा है। जिसके कारण उन नियमों को बोट पहुंच रही है। जी वैश्विक आर्थिक प्रशासन की धुरी रही है ऐसे माहीत में जो भी विख व्यापार संगठन का नया निदेशक बनता है तो उसके लिए बडी बुनीती होगी। एक तरफ उसे इन बुनीतियों का सामना करने के लिए तैयार रहना होगा वही दूसरी तरफ खुद विश्व व्यापार संगठन की गीते का संख्या और प्रमान कही दूसरी तरफ खुद विश्व व्यापार संगठन की गीते का संख्या और प्रमार करने के लिए चुनीती भी होगी और विश्व के आर्थिक मामलों में विश्व व्यापार संगठन का प्रमुख मनवाना एक बड़ा बेलेज होगा।





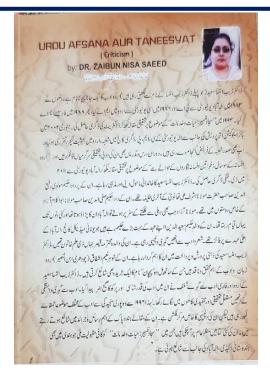
(A Constituent P.G. College, University of Allahabad)
Under the Strengthening Component of DBT Star College Scheme

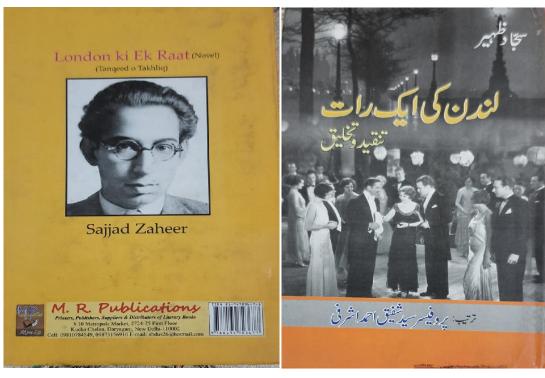






(A Constituent P.G. College, University of Allahabad)
Under the Strengthening Component of DBT Star College Scheme



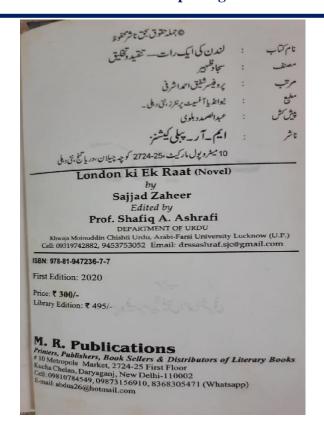


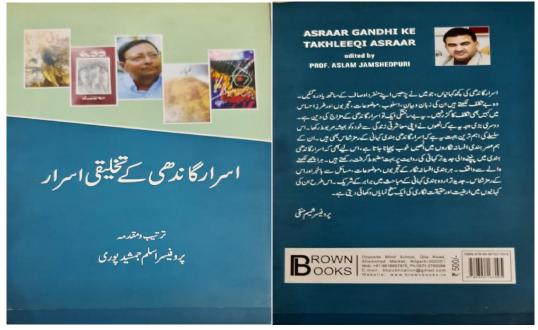




(A Constituent P.G. College, University of Allahabad)

Under the Strengthening Component of DBT Star College Scheme





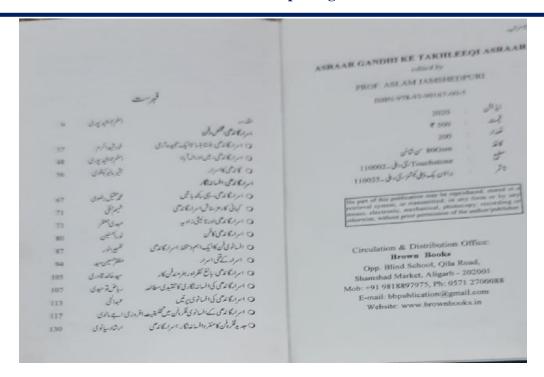




(A Constituent P.G. College, University of Allahabad)

Under the Strengthening Component of DBT Star College Scheme

Website: www.cmpcollege.ac.in



## فېرست مشمولات اداريد دري 05

يروفيسرعلى احدقاطي فيض :صوفى ازم سے ماركسزم تك مئوءا دبستان اورفيض احمرفيض پروفیسر فاروق بخشی 22 يروفيسرانورظهيرانصاري 26 احتباج اورالتفات كاشاعر واكترنفيس عبداتكيم فيض بكل اورآج جاديداختراش 49 وَيَعْلَىٰ وَجِهُ رَبُّكَ بِرَاعِمْرُ اصْ: أَيِكَ جَائزُهُ واكثر فريده خاتون فيق : حيات كارنات اورهم تكارى مزاتمتى اوب ادرفيض 63 مین نذریالیگاؤں سمنشاه زقى پندانيانيت كى اقدار كاشاعر ذكى محفوظ الميرو وكيث فيض كاموضوع تخن 71 زنداني شاعر: فيض احد فيفل. 76 أتلم إيدود كيث بمئو فوزىيدياب روشني اورخوشبو كااستعاره بغيض احمرفيض 80 فيض جسن اور برماليات وأش اثرى فيض احرقيض محدعارف 94 فيقَ : رَتِّي پندود يُكرنا قدين كي نظر مِن 104 عابد حسين مناتي فيض احرفيض كي عصرى معنويت عبدالقيوم 117 فيض احدثيش عالى مسائل كاحكاس محدسر ورلون 125 فيض كاشاعرانه جهات شبيراهم ذار 132

ISBN: 978-81-949954-3-2 V ٢٥ بىلەغۇق ئىن ناشۇمنوڭ تاہم فیقی مقاصد کے قت اور بنان کے حوالے کے ساتھ اقتبا سات تھ کرنے کی اجازت International ADABISTAAN Mau DanishAsari محبيل مسشاور \_\_\_ پردفیسرانورظهیرانساری، ۋاكىزىكىل احد، ۋاكىزىرى شف ۋا كۆھرشىيەجىيى، ۋا كۆرفىق احد، ۋا كۆنتىس ھېدانكىم ( بيرون بت ) يروقيسرسلمان باسط ( يوايس اس ) ، شانان كافلي ( سوستر رلينز ) الفحار راغب ( تفر) عزيز نيل ( بحرين) يمن شاه ( قرائس ) =/100 روپ =/400 روپ =/400 روپ ترسيل زرك لية تفصيلات Denish Kamel A/c no. 37170310446 Branch: HCU Admin IFSC Codle: 58100015612 State Bank of India, Hyderabad ان شارے میں شائع شدومشولات سادارہ کاشنق ہونا ضرور کی تیں۔ الله محمى بيح هم كرتاز عات كى چارد جوكى صرف مكى عدالت يمى سى تمن موكا-ین اور تان ایک غیرتجارتی، غیربیای ورغیرمرکاری دسالہ ہے، جس سے دارستگان بلہ معاوضہ ایک غدمات انجام سینے تیں۔





(A Constituent P.G. College, University of Allahabad)

Under the Strengthening Component of DBT Star College Scheme

Website: www.cmpcollege.ac.in

#### ادبعان 39

ردمان اور انطلب کانتھم کیا جاتا ہے۔ انھوں نے جہاں ردمانی شامری کی ہے وہیں احتری کی ہم معراجتی اور انتقابی شاعری تھی کی ہے۔ ان کی بھش جمعواں شہر تو دومان اور انقلاب کی چاکی۔ مماتھ پھرتی اور گا کھر آئی ہے۔ اپنی احتیا کی اور مرائش شاعری کی اور سے انھیں مباویٹی کی زندگی مجھ گزار کی چاکی اور متعدد پارٹشل کی صعوبتیں تھی اضافی جوئے۔ انھیں نے واروز ری کا عربی تھیں اور کوچہ ایر کی درشتیدیں سے انتقاب اعداد ہوئے۔ ترتدان ناسا کی چشتر تھیں فیض کی چیش کے دائوں کی جی مرکز شت بیان کر تی جیں۔

ل من مراحد و بعث خورسنا الا اوشعر کینیشر و را کیناند آس وقت در مانیت کی لیرآئی به انگی میس کرد. مانیت کی لیرآئی به انگی میس فرق براه در داشت با در مانیت کی لیرآئی به انگی میس در در این با میساند و این میساند و ای

نونے دیمن ہور خیار دو ہونے نونے دیمن ہوں کے تصور میں لٹادی ہم نے

تر: جال لا ہوں ہیں لے کے افھادوں کھر گئی ہے فضا تیرے بیر بین کی ک میم تیرے شوشان سے ہو کے آئی ہے مری حریس میک ہے تیرے بدن کی تی

آج ده مین دل آراکی دای دیگی دوگا وی خوابیده می آنجیس وی کاجل کی نکیر رنگ رخسار به بلکاسا وه غازے کا آبمار صندلی باتھ بید وصندلی می حنا کی تحریر

#### اديستان 38

خیر عبرانگیم اسشنت پرونیسر بغیبارده سی ایم بی وگری کانچ (امآ او پوغوزش)

#### فيض بكل اورآج

قیق کی یا تیم بھا پر ہندہ وخالف کیول لگ رہی ہے ؟ اس تھر ٹال کیا ہے ہے جو ہندہ وہ اس تھر ٹی ایس کیا ہے جو ہندہ و عظا کہ وظریات کے شاف ہے ؟ کیا اس تھر کی ہو سے شعرال جداعت کی یا لیمیدول پر شرب کی تا ہے؟ اس طرح سے بہت مارے موال سے قارئی کے ذہن میں میں چوا ہو سکتے ہیں فیش کیا گیا ہے! شاخر ہے جو اپنے شاموری کی جو سے بندہ و یاک دونوں میں معزب ہوئے ۔ اس تھم می موقع جو جاتا ہے ۔ وہ اپنی تھوں کی جہت ہدہ و یاک دونوں میں معزب ہوئے ۔ اس تھم می موقع

شاعری کی جیت اور پرت واقع موجائے۔ اور وشعروات میں جب ترقی پیند شعرا کاؤ کر ہیں ہے تو اس بین فینس العرفیش کا نام مرفیرست آتا ہے فین جیتے مقبل و معروف کل تھے اسے کا آتا ہی ہیں ہے۔

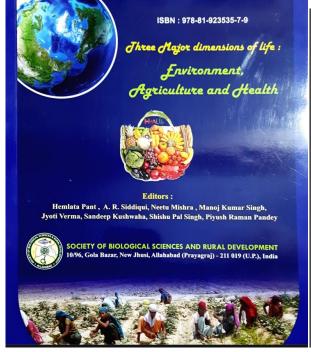




(A Constituent P.G. College, University of Allahabad)

Under the Strengthening Component of DBT Star College Scheme

Website: www.cmpcollege.ac.in



file: Environment and Health R Siddiqui, Nectu Mishra, Manoj Kumar Singh R Siddiqui, Nectu Mishra, Manoj Kumar Singh deep Kushwaha, Shishu Pal Singh and Piyush Raman Pandey of Biological Sciences and Rural Development

ISBN: 978-81-923535-7-9

ENVIRONMENTAL ISSUES : LOCAL, REGIONAL AND GLOBAL ENVIRONMENTAL ISSUES

Jyoti Verma and Shivani Surya

thantal activities in past decades have raised serious issues related to environment and its conservation. Air pollution, poor get of its waste, growing water scarcity, falling ground water tables, water pollution, waste disposal, desertification, earlied deprecation, Global Unitate change, pollution, earlied depredation, Global Unitate change, pollution, earlied depredation, Global Warming, Greenhouse effect, Acidification, Drone depletion and other local, regional and global segmentally problems and genetically modified foods are the current consument problem that make us valietable to and trapedoes now and in the future. In this chapter the essential aspects of environmental problems, causes, effects will be trad some solution to overcome from the environmental issues.

In Exironment?

The word environment refers to all ecological units which are naturally present on earth in the form of land, water, air, wol, is subject, minerals, living organisms etc. This earth is full of natural surroundings, some are biots, and some are non-biotic, occupient are those elements to the human, brists, animals, plants, and microorganisms. Whereas non-biotic elements are those with two no life like air, sunlight, water, land, soil, minerals etc. (under it is also divided among four different sphere vix housebore, amonghere and hydrosphere in which hydrosphere is the largest part on the earth among all life on earth has become unlife due to some kind of action and reactions between different kind of fresures that are present inervolvement.

Currently, the situation of environment is very poor that could never be imagine by over upon accepted in present mine. We have also support to environment by using its resources in very wrong way. We can see that every and every where pollution and for sold and every where pollution and the binary and every where pollution and the human beings through technological advancement. Use of natural resources should be carefully planned and executed. For avoing a better and healthy life to our forth coming generation.

Environmental issues

An environmental problem occurs when there comes a change in quality or the quantity of the environmental factor that

An environmental problem occurs when there comes a change in quality or the quantity of the environmental factor that

An environmental problem occurs when there comes a change in quality or the quantity of the plane's system (air, water,

air is, the three developed as a result of human interference or miterature of the planes.

A variety of environmental problems now affect our entire world. A globalization continues and the earth's natural processes

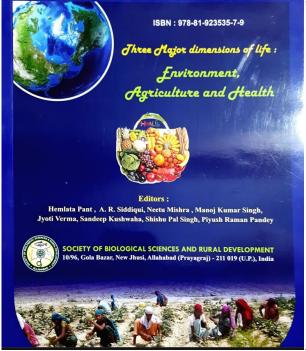
A variety of environmental problems now affect our entire world. A globalization continues and the earth's natural processes

A variety of environmental problems now affect our entire world. A globalization continues and the earth's natural processes

A variety of environmental problems now affect on the plane's and the carth's natural processes

A variety of environmental problems now affect on the plane's and the carth's natural processes

A variety of environmental problems now affecting the world are said faint, an application, as a faint of the plane's system (a faint of t



ata Pant, A. Kushiwaha, Shishu Put Singh and Piyush Raman Pandey yenna, Sandeey Hidogical Sciencea and Rural Development

MARINE POLLUTION, SOURCES, EFFECT AND MANAGEMENT

District of Zoology OMPECCollege, Allahabad, (U.P.), India

prevent the pollution that has been caused by endiess pollutants.

This short review summarizes the present knowledge on pollutant impacts on marine viruses, virus-host systems and their potential ecological implications. Excess nutrients from swage and river efflicients are a primary cause of marine eutrophication and miciliage formation, often related to the development of large viral assemblages. At the same time, bydrocarbons, polychizerated highery and pesticides after ecosystem functioning and can determinate changes in the virus-host interaction, that increasing the proposition of virial infection. All these pollutants might have synergistic effects on the virus-host system and are able to induce prophage, thus increasing the impact of viruses on marine ecosystems.

Marine pullution occurs when harmful effects result from the entry into the ocean of chemicals, particles, agricultural and residential awate, noise, or the spread of invasive organisms. Eighty percent of marine pollution comes from land. Air pollution is also a waste, noise, or the spread of invasive organisms. Eighty percent of marine pollution comes from land. Air pollution is also a contributing factor by carrying off pesticides or dirt into the ocean. Land and air pollution have proven to be harmful to marine life and is aboliste:

to habitate.

The pollution often comes from nonpoint sources such as agricultural runoff, wind-blown debris, and dust. Pollutions bodies of water can be aggravated by physical phenomena like the biological effects of Langmur circulation. Numerat pollution from of water pollution, refers to contamination by excessive inguist of nutrients. It is a primary cause of europhication of form of water pollution, refers to contamination by excessive inguist of nutrients. It is a primary cause of europhication of form of which are contaminated by the contamination of the properties of the pr

way, the loxins are concentrated upwards without a configuration of the loxins are concentrated upwards when a configuration and the loxins are consistent and the loxins are incorporated into the marine ecosystem, they quickly become absorbed into marine food webs. Once in When posticides are incorporated into the marine ecosystem, which can be harmful to humans as well as the entire food web. These can cause a change to tusue matter, buckensary, behaviour, Toxic metals can also be introduced into marine food webs. These can cause a change to tusue matter, buckensary, behaviour, are production, and suppress growth in marine life. Also, many animal forced have a high fishmeal or fish hydrolysac content. In this way, marine totation can be transferred to land animals, and appear later in meat and dairy products.

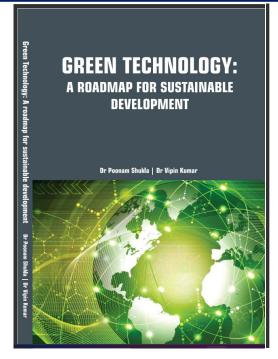




(A Constituent P.G. College, University of Allahabad)

Under the Strengthening Component of DBT Star College Scheme

Website: www.cmpcollege.ac.in



Green Technology: A Roadmap For Sustainable ISBN No. : 978-81-95154

Development – 2020

## Application of Remote Sensing and GIS in Biodiversity Management

Hemlata Pant, Jyoti Verma and Shivani Surya
Department of Zoology, CMP PG College, University of Allahabad
Email address: panthemlata@gmail.com

#### Abstract

Biodiversity is all the different kind of life you will find in one area the variety of animals, plants, fungi, and even microorganism like bacteria all that make up our natural world. Each of these species and organism work together in ecosystem, like an intricate web, to maintain balance and support life. The living organism one at hare of great diversity, living in diverse habitats and possessing diverse qualities and are vital to human existence providing food, shelter, clothing, medicines etc. It have both the consumptive and non-consumptive value. Ecosystem services are the benefits provided by ecosystems. These includes provisioning services such as the regulation of climate, floods, disease, and water quality as well as west treatment, cultural services such as recreation aesthetic enjoyment, and spritual fulfillment; and supporting services such as soil formation, pollination and nutrient cycling. Throughout the world, biodiversity is facing unparalleled threats caused by our untenable use of earth's natural resources. Progressively, we are realizing the finite capacity of our globe to absorb the consequences of our activities; ongoing degradation and loss of natural ecosystems and dependent species; overuse of resources; pollution of water, land and atmosphere; and modification in atmospheric composition leading to climate change with all its consequences. A unique approach is required, which will help to overcome all these issues without challenging the economic development. Technological advances, refined methodologies and growing databases have made our systems increasingly effective for monitoring biodiversity. In the recent deades, with increase in the number of earth observation satellites with better respectively, improvement in spectral bank, wide range of spatial resolutions and unprecedented number of remote sensing and GIS tools enable the management authority for proper management and conservation of biodiversity for

