



Dandkaranya Educational and Cultural Development Research Society Gadchiroli

SHRI GOVINDRAO MUNGHATE ARTS AND SCIENCE COLLEGE KURKHEDA. 441209

Affiliated to Gondwana University, Gadchiroli.

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DVV CLARIFICATION

CRITERION III: Research Innovation and Extension

Metrics No: 3.3.2: Number of books and chapters in edited volumes/books published and papers published in national/ international conference proceedings per teacher during last five years

2017-22

Sl. No.	Name of the teacher	Title of the book/chapters	Title of the paper	Title of the proceedings of the	Name of the conference	National /	ISBN number of the proceeding	Affiliating Institute at	Name of the publisher
2021-2022									
1	Dr. D. D. Ade	Mahatma Jyotirao Phule yanchi shtri-Purush samata Sankalpana		Mahatma Phule-Vyakti aani Karya		National	978-93-91199-09-08		S. R. P. Publicatiuon
2	Dr. S. M. Mahajan	Hawamanatil badal aani Jagtik tapmanwadh		Arthnad	Bhartatil Hawaman badal, Parinam aani	National	978-93-94238-24-4	Dnyanesh Mahavidyalay a Nawargaon	Mahi Publication, Ahamadabad
3	Dr. R. V. Vikhar		Aadim samajasathi ghatatmatak tartudi- ek samajshastriya adhyayan	Samajshashtra sansodhan patrika, Ank-26	Marathi samahshasta parishad	National	2230-7745	Swami Vivekananand Mahavidyalay a Shirur	Marathi samahshasta parishad
4	Dr. R. V. Vikhar	Aadiwasi samajache samajshashtra B. A. Semester VI				National	978-93-92584-25-1		Harshwardhan publication Pvt. Ltd. Beed
5	Dr. G. D. Satpute	Textbook of Chemistry B. Sc. Semester III				National			Himalaya Publishing House
6	Dr. G. D. Satpute	Textbook of Chemistry B. Sc. Semester IV				National			Himalaya Publishing House

7	Dr. S. N. Niwadange	Environmentally Benign Un-Catalyzed Esterification of Alcohols under Solvent-Free Condition Using Acetyl Chloride: An Experimental Investigation		Recent Trends in Chemical and Material Sciences Vol. 6		National	Print ISBN: 978-93-5547-050-8, eBook ISBN: 978-93-5547-058-4		
8	Dr. S. N. Niwadange		USE OF IONIC LIQUID PERSPECTIVES IN THE SYNTHESIS OF 3-ARYL-4-SUBSTITUTED COUMARINS FROM O-HYDROXY CARBONYL COMPOUNDS		Virtual International Conference on Multifunctional Advanced Materials-2021	International	2394-7780	JVM's Degree College, Airoli	International Journal of Advance and Innovative Research Vol. 8, Issue 4
9	Mrs. T. D. Wakde	Environmental Impacts of Climate Change in a book entitled Science & Environment Vol. III				National	978-81-955557-8-9		SCIENG Publication
10	Mrs. T. D. Wakde		The Application of Biotechnology for Sustainable Future	International Journal of Advanced Research in Science, Communication & Technology Volume 12, Issue 4	International E-Conference on Sustainable Futuristic Materials	International	2581-9429		Lambert publication

11	Dr. A. B. Solunke	Handbook for Higher Education Administrators				National	978-81-949754-1-0		Crescent publishing corporation New Delhi
12	Dr. A. B. Solunke	Indian Bills & Acts on AIDS & HIV				National			Blue Rose publishers
13	Dr. A. B. Solunke	Indian Bills & Acts in Biotechnology & Microbiology				National	978-93-91771-03-4		Crescent publishing corporation New Delhi
2020-2021									
1	Mr. B. V. Tupte	Dictionary of Covid-19 terms				National	978-93-906185-4-5		Harshwardhan publication, Beed
2	Mr. B. V. Tupte		Photoluminescence in NaCa ₂ Br ₅ :Eu ²⁺ Novel Phosphor.	Int. Res. J. of Science & Engineering, 2020; Special Issue A7	National Conference on "Recent Trends in Mathematical, Physical, Chemical, Library, Life Sciences - 2020	National	2322-0015		IRJSE
3	Dr. N. T. Arekar	Shabdyogi Dr. Harischandra Borkar-Sahitya darshan				National	978-81-944165-2-4		Akar publication Nagpur
4	Dr. N. T. Arekar		Coronache samajik, Sanskritik, Shaishnik bhashik shetratil padsad	The impact of covid-19 & existing social problems with context to Indian society	The impact of covid-19 & existing social problems with context to Indian society	National	2277-5730	Shri Govindrao Munghate Arts & Science College Kurkheda	Ajanta

5	Dr. N. T. Arekar		Jagatikikarnat samkalin marathi kaviteche swarup	Samkalin marathi sahitya- Chintan aani chikitsa	Samkalin marathi sahitya- Chintan aani chikitsa	National	2319-4766	Lokmanya Mahavidyalaya, Warora	Scholeraly research journal
6	Dr. D. D. Ade		Corona mahamari aani bhartatil dhisal niyojan	The impact of covid-19 & existing social problems with context to Indian society	The impact of covid-19 & existing social problems with context to Indian society	National	2277-5730	Shri Govindrao Munghate Arts & Science College Kurkheda	Ajanta
7	Dr. R. V. Vikhar		Samahshastra aani sambhandhit shetrat rojgar sandhi, Nokari sansadhane uplabdh	The impact of covid-19 & existing social problems with context to Indian society	The impact of covid-19 & existing social problems with context to Indian society	National	2277-5730	Shri Govindrao Munghate Arts & Science College Kurkheda	Ajanta
8	Dr. R. V. Vikhar		Addictedness: Socila problems in India	Drug, desease & development	Drug, desease & development	Internatio nal	2394-7632	Mungasaji maharaj mahavidyalaya, Darvha	Scholeraly research journal
9	Dr. R. V. Vikhar		Adiwasi samajawar coronacha padlele prabhav	The impact of covid-19 & existing social problems with context to Indian society	The impact of covid-19 & existing social problems with context to Indian society	National	2277-5730	Shri Govindrao Munghate Arts & Science College Kurkheda	Ajanta
10	Dr. R. V. Vikhar	Adiwasi samjache samajshastra B. A. III Semester V				National	978-83-90618-78-1		Harshwardhan publication, Beed

11	Dr. R. V. Vikhar		Coronacha asanghatit kamgar yavr zalelya parinamancha samajshastriy adhyayan	The impact of covid-19 & existing social problems with context to Indian society	The impact of covid-19 & existing social problems with context to Indian society	National	2277-5730	Shri Govindrao Munghate Arts & Science College Kurkheda	Ajanta
12	Dr. A. G. Ramteke		Women identity at conflict: Manju kapurs difficult daughters	The impact of covid-19 & existing social problems with context to Indian society	The impact of covid-19 & existing social problems with context to Indian society	National	2277-5730	Shri Govindrao Munghate Arts & Science College Kurkheda	Ajanta
13	Dr. S. N. Niwadange	Oxidizing reagents in organic synthesis				International	978-620-2-81588-8		Lambert academic publishing house, Germany
14	Dr. S. N. Niwadange	Chapter in Book- Environmentally Benign Un-Catalyzed Esterification of Alcohols under Solvent-Free Condition Using Acetyl Chloride: An Experimental Investigation			Recent trends in chemical & material sciences Vol. 6	International	Print ISBN: 978-93-5547-050-8 eBook ISBN: 978-93-5547-058-4		Book publisher international
15	Mrs. T. D. Wakde	Chapter in book- Gender sensitization & Psychology			Unveiling the Boundaries of Gender Issues	National	78-93-91248-06-2		MKSES Publisher (India)

16	Dr. D. S. Bansod	Light & Ultrastructure of Thyroid gland of male Bat				International			Lambert academic publishing house, Germany
17	Mrs. R. B. Shambharkar	Chapter in book- Challenges For Teachers And Students of Remote Areas To Enable Ict Based Teaching And Learning Methods In Lockdown			COVID – 19 : Crisis, Effects, Challenges and Innovations	National	78-93-87558-45-8	Annasaheb Gundewar College, Katol Road, Nagpur	

2019-2020

1	Dr. D. D. Ade		Striyanche Udharkarte- Mahatma Jyotiba Phule	Maharashtra in the age of Mahatma Phule & his works	One day Interdisciplinary online seminar	National	2277-5730 IF-6.399	Shri Govindrao Munghate College	Ajanta
2	Dr. D. D. Ade		Dr. Babasaheb Ambedkar- Sheti anni shetivisayak vichar karye	Thoughts of Dr. Babasaheb Ambedkar	One day Interdisciplinary online seminar	National	2277-5730 IF-6.399	Shri Govindrao Munghate College Kurkheda	Ajanta
3	Dr. V. D. Murkute		Sportmans spirit of Kho-Kho & Kabaddi players	B. Aadhar special issue ccxIII	Interdisciplinary National conference on understanding a self	National	2278-9308 IF-7.67	Shri Govindrao Munghate College Kurkheda	B. Aadhar Publication
4	Dr. D. S. Bansod	Zoology Semester V(CBCS) Insect Vector & Deseases				National	978-93-5367-713-8		Himalaya publishing House

5	Dr. D. S. Bansod	Zoology Semester V(CBCS) Parasitology				National	978-93-5367-749-7		Himalaya publishing House
6	Dr. D. S. Bansod	Zoology Semester V(CBCS) Aquatic Biology				National	978-93-5367-775-6		Himalaya publishing House
7	Dr. D. S. Bansod	Zoology Semester VI(CBCS) Animal Biotechnology				National	978-93-89951-72-1		Himalaya publishing House
8	Dr. D. S. Bansod	Zoology Semester VI(CBCS) Immunology				National	978-93-89951-85-1		Himalaya publishing House
9	Dr. R. V. Vikhar	Sociology- Samanya sanshodhan padhati Bhag-2				National	978-81-945173-7-5	Shri Govindrao Munghate	Harshwardhan publication Beed
10	Dr. R. V. Vikhar		Mahavidyalayin Gunwatta vikasat abhyasapurak upkramanchi bhumika	National conference on NAAC		National	2394-3114	Shri Govindrao Munghate College Kurkheda	Spin care listed journal
11	Dr. A. B. Solunke	Handbook of Online & Open Distance learning education system				National	978-93-875372-7-9		Crescent publishers New Delhi
12	Dr. N. T. Arekar		Vidarbhatil Nivadak Lokgite: Ek Aakalan	Marathi Pradhyapak Parishadeche 31 ve Adhiveshan	Marathi Pradhyapak Parishadeche 31 ve Adhiveshan	National	2277-5730 IF-6.399	Shivaji College, Rajura	Ajanta
13	Dr. N. T. Arekar		Purv zadipattiyil Rangbhumicha vedh	The contribution of vidarbha development board in the progress of Vidarbha	Two days National conference	National	978-81-941779-5-0	C. P. & Berar College Nagpur	Sankalp publication Vidyanagar, Nagpur

2018-2019

1	Dr. R. G. Munghate	Issues in Higher education, literature & English language teaching				National	978-93-87537-28-6	S. G. M. College Kurkheda	CRESCENT PUBLISHING CORPORATION, NEW DELHI
2	S. M. Mahajan		Tambakhu Niyantran Kayda 2003	Interdisciplinary National Conference on "Drug Addiction-A Main Problem Of Indian Society In Current Scenario"	One Day Interdisciplinary National Conference	National	2394-8426 & International Impact Factor 5.682	Mahila Mahavidhyala Gadchiroli In association with Gondwana University Gadchiroli and Vidharbha Marathi Samajshastra Parishad	Gurukul International Multidisciplinary Research Journal
3	Dr. D. S. Bansod	Zoology B. Sc. Semester III(CBCS)				National	978-93-5299-328-4	S. G. M. College	Himalaya Publishing House
4	Dr. D. S. Bansod	Zoology B. Sc. Semester IV(CBCS)				National	978-93-5299-694-0	S. G. M. College	Himalaya Publishing House
5	B. V. Tupte	Physics B. Sc. Semester III(CBCS)				National	978-93-5299-329-1	S. G. M. College	Himalaya Publishing House
6	B. V. Tupte	Physics B. Sc. Semester IV (CBCS)				National	978-93-5299-761-9	S. G. M. College	Himalaya Publishing House
7	R. B. Shambharkar		In Vitro Evaluation of anticancerous activity and phytochemical analysis of B. monosperma L. of Swollen Rachis	International Journal of Current Engineering and Scientific Research, Pages 1157-1161	International Conference at Kamla Nehru College Nagpur	International	Volume 6, 2393-8374	Kamala Nehru College Nagpur	
8	Dr. A. B. Solunke	Compendium of Immunology & Virology				International	978-36-4249-81-1		Notion Press

9	Dr. R. V. Vikhar		1. कुरेखडा तालुक्यातील नवरगांव, आंधळी येथील व्यसनाधिनतेचे समाजशास्त्रीय अध्ययन	One Interdisciplinary National Conference on "Drug Addition a main Problem of Indian Society in current Scenario Organized by Department of Sociology MahiliMahavidyala yaGadchiroli.		National	2394-8426 & International Impact Factor 5.682	Mahila Mahavidhyala ya Gadchiroli In association with Gondwana University Gadchiroli and Vidharbha Marathi Samajshastra Parishad	Gurukul International Multidisciplinary Research Journal
10	Dr. R. V. Vikhar		2. विमुक्त भटक्याजमात - गोपाळ समाजाची समस्या	National Seminar on VimuktaNomaDiccosted Tribes & Other Backward Class Present Condition Development and Challenges Organized By Vaidyanath College Parali.	National seminar in Vaidyanath college Parli	National		Vaidyanath College Parali.	
11	Dr. R. V. Vikhar		3. प्रसारमाध्यमे आणि बदलते जीवन प्रवाह	मराठी समाजशास्त्र परिषदेच्या 29 वे राष्ट्रीय अधिवेशन विषय - जनसंवाद आणि सामाजिक माध्यमांचा भारतीय समाजावर पडलेला प्रभाव		National		Dr. Babasaheb Ambedkar College Bramhapuri	

12	Dr. R. V. Vikhar	Samajshastracha Parichay				National	978-93-83132-79-9		Raghav Publishers & Distributers Nagpur
13	Dr. N. T. Arekar		Vyasanadhinatethe Amarchitra-Ekch Pyala	One Interdisciplinary National Conference on "Drug Addition a main Problem of Indian Society in current Scenario Organized by Department of Sociology MahiliMahavidyalyaGadchiroli.		National	2394-8426 & International Impact Factor 5.682	Mahila Mahavidhyalya Gadchiroli In association with Gondwana University Gadchiroli and Vidharbha Marathi Samajshastra Parishad	Gurukul International Multidisciplinary Research Journal
2017-2018									
1	Dr. D. S. Bansod	Book -1. ZOOLOGY (B.Sc. Sem-I (CBCS				National	978-93-5273-462-7	Shri Govindrao Munghate Arts and	Himalaya Publishing House
2	Dr. D. S. Bansod	2. ZOOLOGY (B.Sc. Sem-II (CBCS)				National	ISBN: 978-93-5273-714-7	Shri Govindrao Munghate Arts and Science College	Himalaya Publishing House

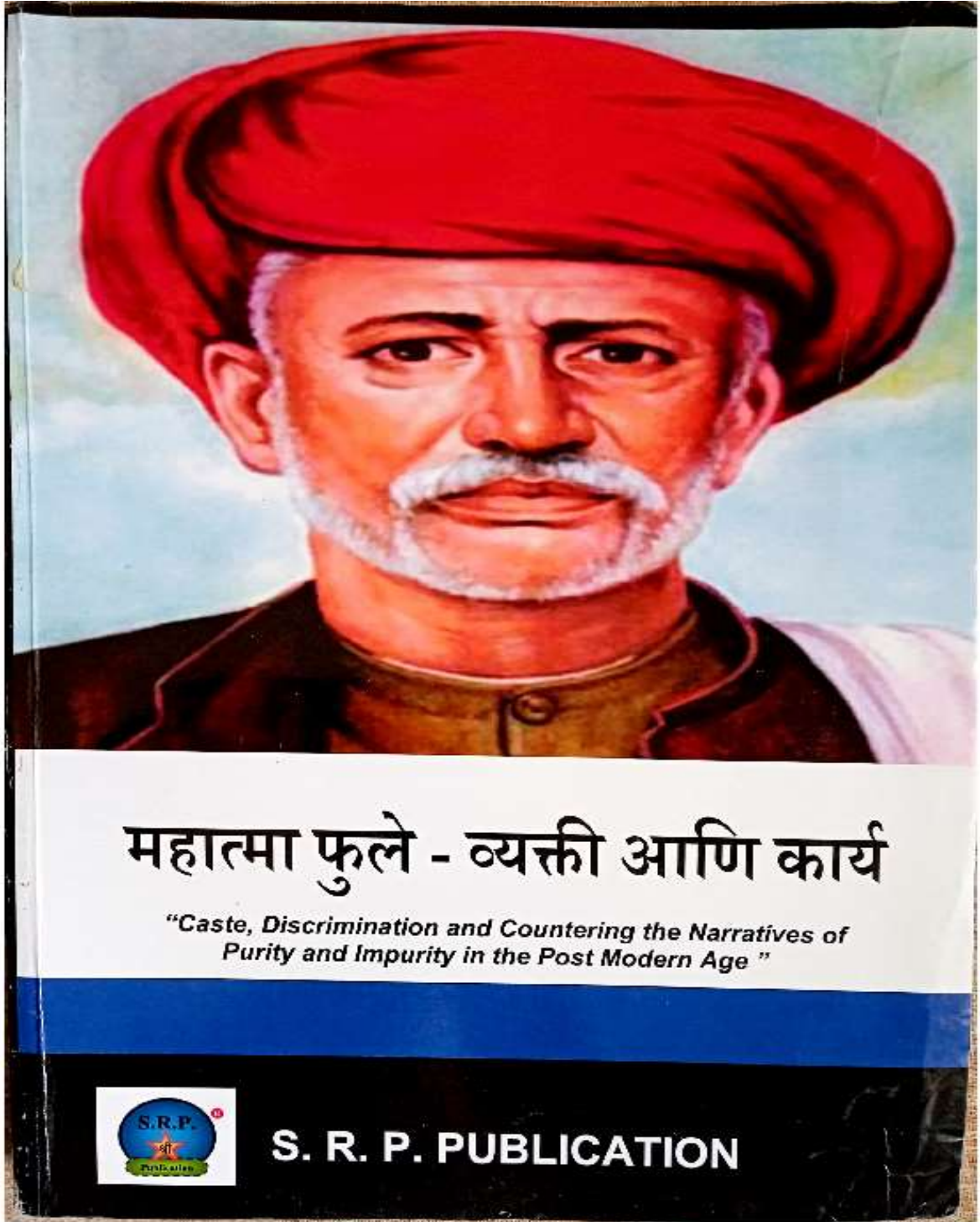
3	Dr. A. B. Solunke	Chapter in Book- Chapter Fermentation production of alpha ketoglutaric acid. Recent advances in Biotechnology				Internati onal	ISBN- 978-81- 8329-936-7		Shri publishers & Distributers New DelhiEdition 2018
4	Dr. A. B. Solunke	Handbook for Finanncce & Accounts in Maharashtra Universities							Harshwardhan publication Pvt. Ltd. Limhaganesh Beed
5	Dr. A. A. Bhoyar	Book-Adivasi Shetratil Sarvajanik Granthalay				National	ISBN:-978-81- 924534-7-7	Shri Govindrao Munghate Arts and Science	Granthalay Sanchalanalay Maharashtra State Mumbai
6	Dr. R. V. Vikhar	Book-Ghodezariche Pakshivaibhav				National	ISBN- 978-93- 86778-89-5	Shri Govindrao Munghate Arts and	Harshwardhan publication Pvt. Ltd. Limhaganesh Beed
7	Mr. S. M. Mahajan		Dr. Babasahebance Krushivishayak Arthik Vichar	Arthvishwa	Vidarbha Arthshashtra Parishad- 41 ve warshik adhiveshan	National	2319-6289	Vidyasagar Kala Mahavidyalay a Ramtek	Arthvishw
8	Mr. B. V. Tupte	Physics B.Sc. Semester I (CBCS) Himalaya Publishing House.				National	ISBN:978-93- 5299-329-1	Shri Govindrao Munghate Arts and Science	Himalaya Publishing House

9	Mr. G.D. Satpute		Evaluation Nutrient Index by Using Organic Carbon to Determine Soil Fertility Status of Kurkheda Tahsil , Gadchiroli District, Maharashtra India		National Conferences on Recent Trends in Synthesis and Characterization of Futuristic Material in Science for the Development of Society .	National	ISSN:-2395-602X	Shri Govindrao Munghate Arts and Science College Kurkheda	Online Published
10	Mr. G.D. Satpute		Tungstic acid Catalysed Knoevenagel Condensation Synthesis of 5-arylidene-2, 4-thiazolidinediones		National Conferences on Recent Trends in Synthesis and Characterization of Futuristic Material in Science for the	National	ISSN:-2395-602X	Shri Govindrao Munghate Arts and Science College Kurkheda	Online Published
11	Dr. R. G. Munghate	Advance English Grammer				National	ISBN- 978-81-8342-451-6	Shri Govindrao Munghate Arts and	Crescent Publicing Corporation , New Delhi
12	Dr. R. G. Munghate	Chapter in Book-Issue and Intricacies of Translation Vis-à-vis Comparative Literature., Book Name:- Translation Transcending Boundries				National	ISBN:-978-93-86302-27-4	Shri Govindrao Munghate Arts and Science College Kurkheda	EBH Publishers Guwahati

**Number of books and chapters in
edited volumes/books published
and papers published in national/
international conference
proceedings per teacher**

2021-22

1. Dr. D. D. Ade



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प्रा. डॉ. दशरथ धर्माजी आदे

इतिहास विभाग प्रमुख,
श्री. गोविंदराव मुनघाटे महा. कुरखेडा, जि-गडचिरोली.

प्रस्तावना

भारतीय समाजात स्त्रीचे स्थान व महत्त्व सतत बदलत राहिले. भारतीय स्त्री नेहमीच देवता म्हणून पूजनीय आणि माता म्हणून वंदनीय राहिली आहे. तर त्याचवेळी ती दुसऱ्या बाजूने केवळ भोगदासी व गुलाम म्हणून अत्यंत तिरस्कारणीय व उपेक्षित राहून स्त्रीला दुय्यम स्थान मिळत राहिले.

प्राचीन काळापासूनच पितृसत्ताक पद्धतीनुसार कुटूंबावर पुरुषांची सत्ता व अधिकार आहे. त्यामुळे आपोआपच स्त्रियांवर अनेक बंधने येतात. त्याचे बरेवाईट परिणाम स्त्रीला भोगावे लागतात, तसेच स्त्रियांकडे हीन भावनेने पाहिले जाते. मध्ययुगीन कालखंडातही स्त्रियांचा दर्जा अतिशय खालावलेला होता.

19 व्या शतकात स्त्रीवर्गाच्या गंभीर स्वरूपाच्या अनेकविध समस्या होत्या. यांत प्रामुख्याने बालविवाह, सतीप्रथा, विधवा विवाहाला विरोध, केशवपन, परितक्त्या स्त्रियांच्या समस्या, बाल-जरठ विवाह, बहुपत्नित्व, कन्यावध, अनाथ व विधवा गर्भवती स्त्रियांचा प्रश्न, देवदासी प्रथा इत्यादींचा समावेश होता. या सर्व समस्यांचे मुळ कारण जर कोणते असेल तर ते म्हणजे पुरुषप्रधान कुटूंब व एकूणच भारतीय समाज व्यवस्थेत स्त्रीवर्गाला देण्यांत आलेले गौण स्वरूपाचे स्थान हे होय. वास्तविक मानवी समाजरूपी रथाचे दोन चाक म्हणजे स्त्री-पुरुष हे होत. मात्र कुटूंबाचे नेतृत्व हे पुरुष वर्गाकडेच असल्याने भारतीय स्त्रीवर्ग नेहमीच उपेक्षित राहिला.

19 व्या शतकातील भारतातील सामाजिक व धार्मिक सुधारणांचे प्रमुख वैशिष्ट्य म्हणजे "यावेळपर्यंत समाजात गलितगात्र समजल्या गेलेल्या व उपेक्षित राहिलेल्या स्त्रीवर्गाच्या उन्नतीच्या दिशेने केल्या गेलेले प्रयत्न" हे होय. या शतकातील सामाजिक सुधारणांचा केन्द्रबिंदू प्रामुख्याने स्त्रीसुधारणा हा होता.

या पार्श्वभूमीवर भारतीय समाजात सुधारणा करण्याचे ध्येय बाळगून कार्य करणाऱ्या 19 व्या शतकातील समाज सुधारकात महात्मा जोतीराव फुले यांचे स्थान अग्रगण्य आहे. महात्मा फुले यांच्या लिहण्या, बोलण्या आणि वागण्यात नेहमीच स्त्रीला आदराचे स्थान राहिले. जोतीरावांनी आपल्या निर्माणकर्त्याने (निर्मिकाने) एकंदर सर्व स्त्री-पुरुषास असा उल्लेख वारंवार केलेला आहे. यावरून ते स्त्री-पुरुष हे दोघेही समसमान आहेत या विचारसरणीचे होते. स्त्रीमुक्ती बाबत त्यांनी स्पष्ट भुमिका घेतली होती, ती केवळ स्त्रीवर्गाचा उद्धार व्हावा किंवा स्त्रिया सुशिक्षित झाल्या तर कुटुंबाला पुढे जायला योग्य होईल ऐवढ्यापुरती मर्यादीत नव्हती, तर एकंदर पुरुष वर्गाकडून समस्त स्त्रीवर्गावर लादल्या गेलेली गुलामगिरी नष्ट व्हावी अशी होती. म. फुले हे "उक्ती आणि कृती"

2. Dr. S. M. Mahajan



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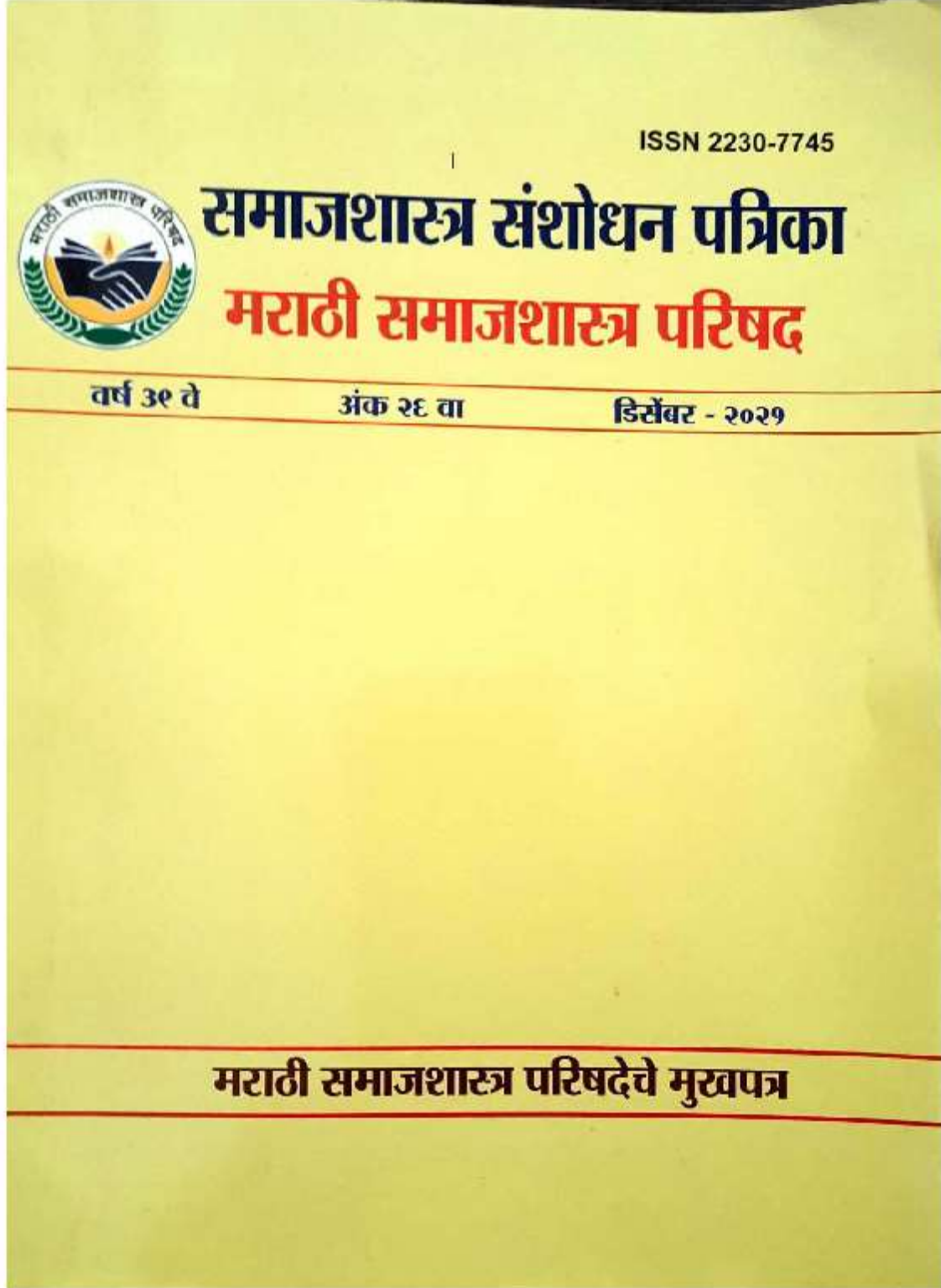
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डॉ. संजय मधोकराव महाधन
अर्थशास्त्र विभागप्रमुख
श्री गोविंदराव मुनघाटे कला व विज्ञान महाविद्यालय,
पुरळीस वि. गवळिरोली (मह.)
मो. नं. ९०४६७५७९६०

हवामानातील बदल ही एक नैसर्गिक घटना आहे. पृथ्वीचे हवामान म्हणजे सूर्य, वातावरण सागरी पृष्ठभागावर, जमीन व जीवजगावर या सर्वांचे बदलवरील परस्परक्रिया यांचा एकत्र परिणाम आहे. पुरातन काळातून हिम युगापासून तर आजच्या औद्योगिक युगापर्यंत पृथ्वीचे तापमान बदलत आले आहे. बदल हा वर्धापनाचा स्वरूपी भाग आहे. याला काही बदल जलद गतीने होतात तर काही बदल हजारो वर्षांच्या काळात घडतात. हवामानात बदल होण्यास नैसर्गिक व मानवनिर्मित दोन्ही स्वरूपांनी कारणे जबाबदार आहेत. बहुतांश नैसर्गिक बदल हे विशिष्ट आकृतीबंधाने किंवा पध्दतीने होतात. त्यामुळे त्यांच्या परिणामांचा अंदाज बांधता येतो. प्राचीन काळात झालेली हिमयुगे ही नैसर्गिक क्रमपाने झालेल्या हवामान बदलांचे उदाहरण आहे. तर मानवी हस्तक्षेपांमुळे हवामानात झालेले बदल अधिक गंभीर, अमानक कल्पमलेले व अगदी दराकाच्या फरकांसाठी दिसून येतील इतके जलद गतीने होतात.

परंतु आज आपल्याला अस्वस्थ करणारी गोष्ट अशी आहे की मानवी प्रक्रियांमुळे या बदलांना वितरण गती प्राप्त झाली आहे. शास्त्रज्ञांच्या अंदाजानुसार इ.स. २०५० च्या सुमारास पृथ्वीचे सरासरी तापमान १.५°सें.ते ४.५°सें.चे पर्यंत वाढलेले असेल. या वेगवान तापमान वाढीला अनेक कारणे जबाबदार आहेत. सर्वात मानवी प्रतीमुळे उत्पन्न झालेले कार्बन, पृथ्वीत वातावरणात कार्बनमुळे वातावरणातील काही वायुंचे प्रमाण वाढत आहे. वातावरणात सोडल्या जाणाऱ्या या वायुंचे प्रमाण असेच वाढत राहिले तर हवामानात मुळभूत स्वरूपाचा बदल घडून येण्याची भीती व्यक्त केली जात आहे. पृथ्वी उबदार बनत जाण्याच्या या प्रक्रियेलाच 'जागतिक तापमान वाढी' असे म्हणतात. या तापमान वाढीमध्ये हरित गृह वायूंचा पार मोठा सहभाग आहे. या शीत निबंधामध्ये हवामानातील बदलाचा जागतिक तापमान वाढीवर प्रत्यक्ष परिणाम झालेला आहे याचा शोध घेण्याचा प्रयत्न करण्यात आला आहे.

3. Dr. R.V. Vikhar



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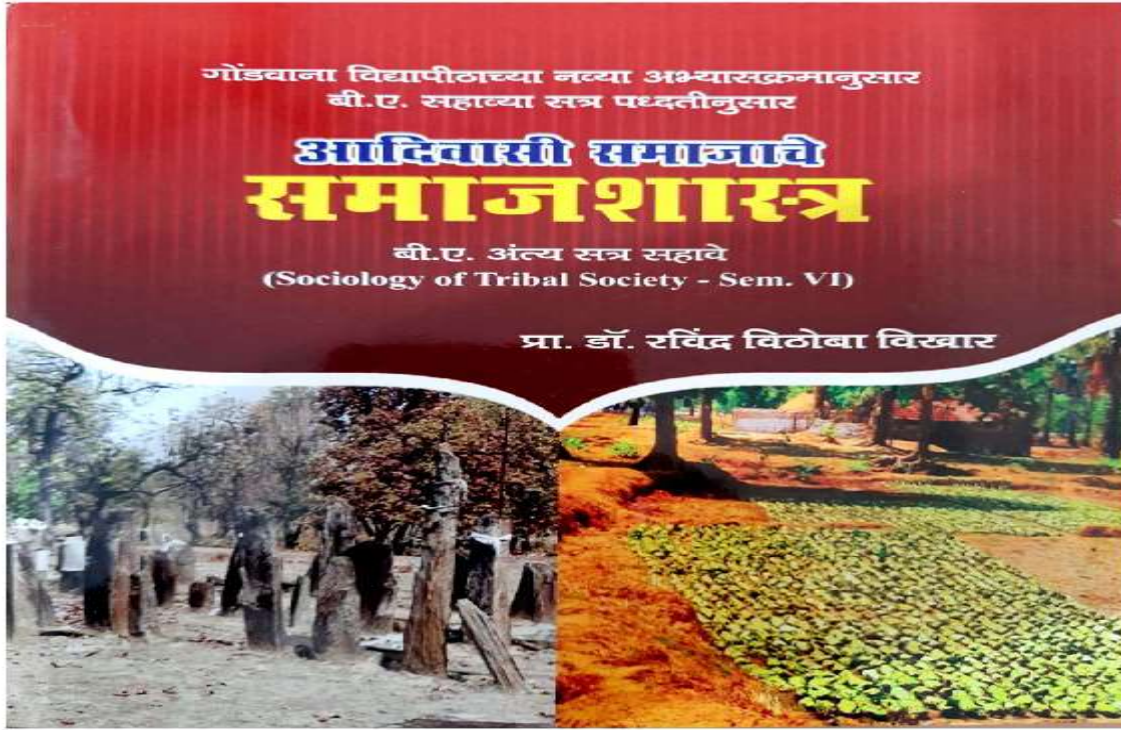
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डॉ. सीट विलेबा विश्वा

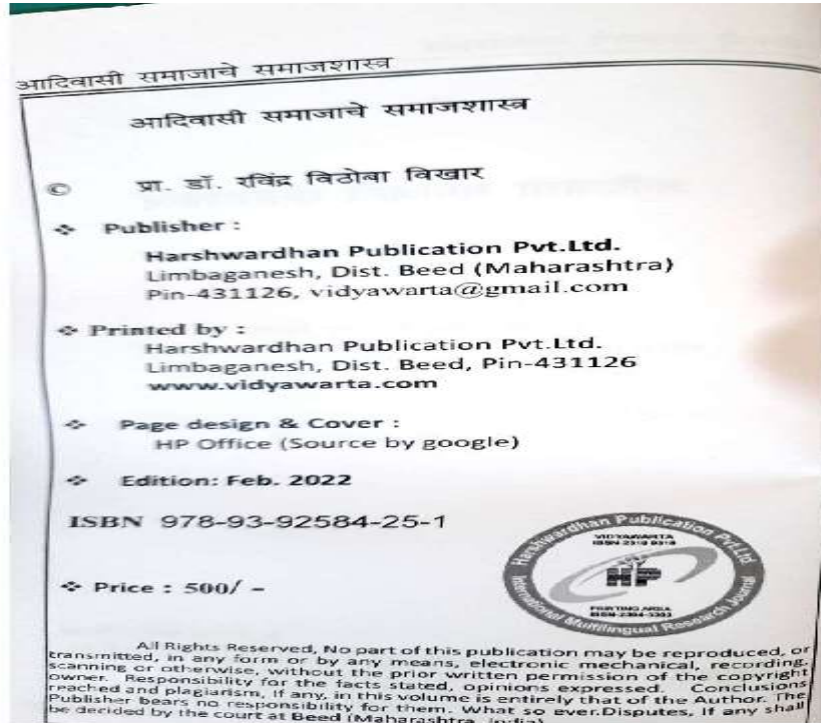
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भारत विविधतेचा देश म्हणून ओळखला जातो. यात विविध वंश, धर्म, भाषा बोलणारे विविध संस्कृतीचे लोक राहतात. जगातील सर्वत्र देशांमध्ये आदिवासी जमाती आहेत. वेगवेगळ्या देशांमध्ये त्यांना विभिन्न नावाने संबोधिले जाते. युरोप खंडातील देशांमध्ये 'जिप्सी' अमेरिकेत 'इंडियन्स' आस्ट्रेलियात 'एबोरिजिन्स' या नावाने संबोधिले जाते. भारतात ६ हजारपेक्षा जास्त जाती व उपजाती आहेत. १९५० मध्ये एकूण १४ राज्यात २१० आदिवासी जमाती अनुसूचित जमातीच्या यादीअंतर्गत समाविष्ट करण्यात आल्या होत्या. २००१ च्या जनगणनेनुसार आदिवासी जमातीची संख्या वाढून ती जवळपास ५५० झाली आहे. आदिवासींची एकूण लोकसंख्या ८.४ कोटी आहे. म्हणजेच भारताच्या एकूण लोकसंख्येच्या ८.२०: लोकसंख्या आदिवासींची आहे. १९५० ते २००१ या पन्नास वर्षांच्या कालावधीत आदिवासी जमातीची संख्या २२२ वरून ५५० झाली. भारतात ४२७ अनुसूचित जनजाती आहेत. १९९१ च्या जनगणनेप्रमाणे त्यांची लोकसंख्या एकूण लोकसंख्येच्या ७.८: आहे. या देशातील मूळ निवासी म्हणून डॉ. इल्विन तसेच ठक्कर यांना त्यांना 'आदिवासी' म्हटले आहे. डॉ. घुर्गे त्यांना इंग्लिश 'मागासलेले हिंदू' असं करतात. तसेच वनात राहणारे म्हणून 'वनजाती' असेही म्हणतात. भारतीय संविधानातील कलम ३४१ आणि ३४२ मध्ये केलेल्या तरतुदीप्रमाणे त्यांचे नावे सुचित समाविष्ट करण्यात आलेल्या या जनसमूहांना "अनुसूचित जनजाती" म्हणतात. अनुसूचित जनजाती पश्चक आणि अंतर्मुखी जनसमूह असून उत्पादन आणि उत्पादकांच्या दृष्टीने समरूप असतात. आर्थिक बाबतीत मागासलेल्या या समूहातील लोकांचे उत्पन्न शोषण केल्या जाते. भाषा, वंश, धर्म जीवनशैलीचा विचार करता त्यांच्यात इतरांपेक्षा मागासलेल्या दिसतो. काही विचारवंत, अभ्यासक व सामाजिक कार्यकर्ते यांनी सुध्दा या समाजाचा विविध नावे दिली आहेत. रिसले, लॅस्ली, एल्विन, गॅमसन, शुबर्ट, मार्टिन, ए. व्ही. ठक्कर यांनी या लोकांना आदिवासी (Aboriginal) किंवा "आदिवासी मूळचे रहिवासी" (Aboriginal) म्हटले आहे. याचा अर्थ Aboriginal मूळचे निवासी असा होतो. डॉ. घुर्गे यांनी त्यांना "तथाकथीत मूळचे रहिवासी BSo Called Aborigine" "मागासलेले हिंदू" Backward Hindus असे म्हटले

4. DR. R.V. Vikhar



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UNIT-I : Tribal Law and Justice :

आदिवासींचा कायदा व न्याय :

a. Meaning of Political Organization

राजकीय संघटनेचा अर्थ

b. Types of Government.

आदिवासी राज्यसंस्था व शासनसंस्था

c. Tribal law & justice in Tribal Society

आदिवासी समाजातील कायदा आणि न्याय

d. Reservation among the tribal's, Provision of Schedule V, PESA Act 1996 Implementation of PESA Act in Maharashtra, Forest Act

आदिवासींमधील आरक्षण, संविधानातील ५ वी अनुसूची, पंचायत विस्तार (अनुसूचित क्षेत्र) कायदा १९९६ पेसा, महाराष्ट्रातील पेसा कायद्याची अंमलबजावणी, वन कायदा

UNIT- II : Tribal Religion and Magic :

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a. Theories of origin of religion.

धर्माच्या उत्पत्तीचा सिध्दांत

b. Religious beliefs, rituals, worships.

धार्मिक श्रध्दा, विधी, पुजा

c. Magic among the tribals.

आदिवासींमध्ये जादू

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UNIT-III : Social Movement :

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a. Meaning of Social Movement

सामाजिक चळवळीचा अर्थ

b. Characteristics of Social Movement

सामाजिक चळवळीची वैशिष्ट्ये

c. Tribal Movement in India

भारतातील आदिवासींच्या चळवळी

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संथाल चळवळ

ii) Kharwar Movement

खारवार चळवळ

iii) Movement of Birsa Munda

बिरसा मुंडा चळवळ,

iv) Jharkhand Movement

झारखंड चळवळ

UNIT-IV : Major Problem of Tribals in India :

भारतातील आदिवासींच्या प्रमुख समस्या :

a. Causes of Tribal Problems

आदिवासी समस्यांची कारणे

b. Nature of Tribal Problems.

आदिवासी समस्यांचे स्वरूप

i) Social & Cultural Problems

सामाजिक आणि सांस्कृतिक समस्या

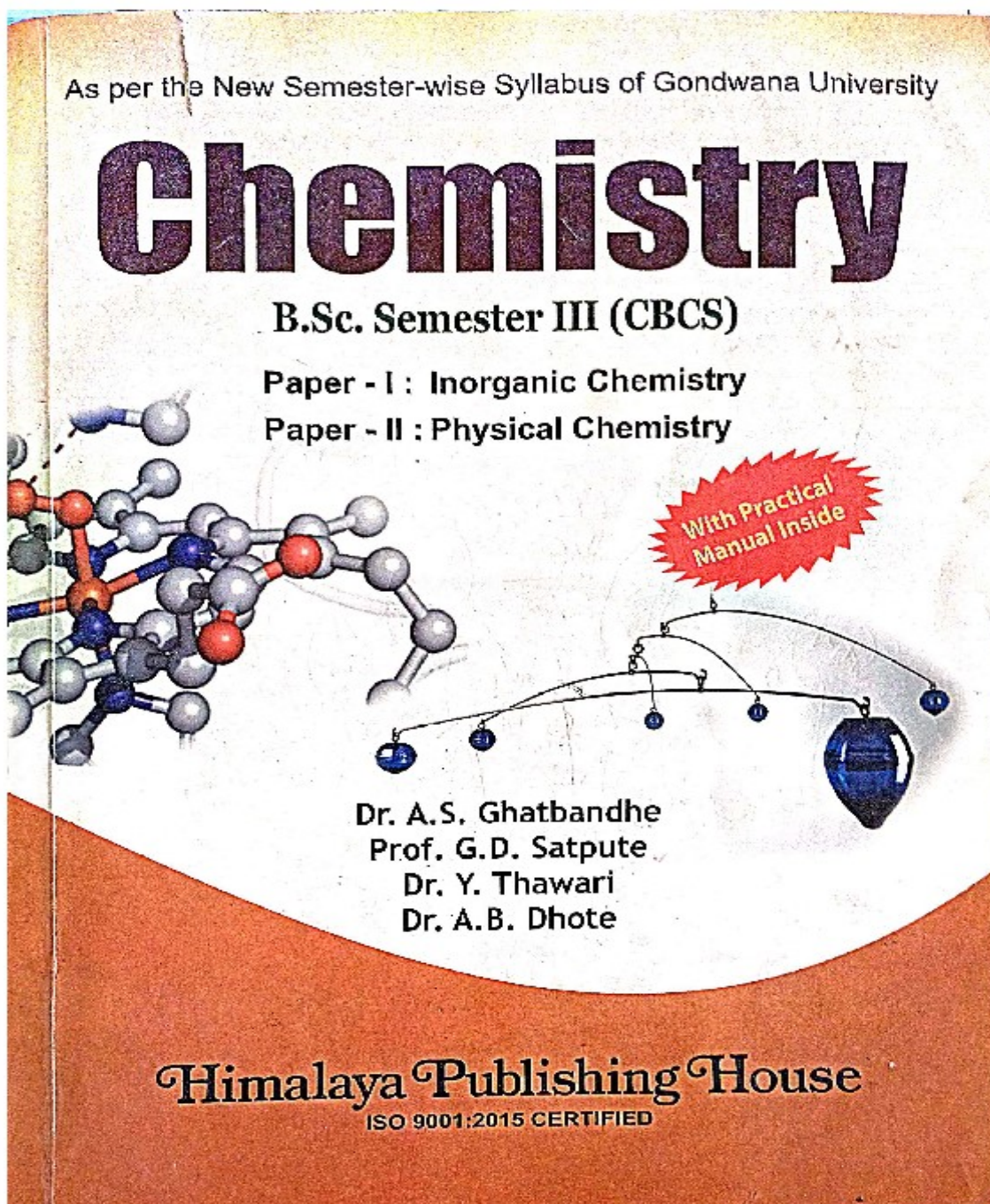
ii) Economic Problems

आर्थिक समस्या

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5. DR. G.D. Satpute



Dept. of Chemistry

As per New Semester-wise Syllabus of Gondwana University

CHEMISTRY

B.Sc. Semester III (CBCS)

Paper I - Inorganic Chemistry

Paper II - Physical Chemistry

Dr. A. S. Chathandiké
S.F.S. College,
Nagpur

Dr. Y. Thawari
Asst Professor & HOD
Neelam Hikalal College,
Bramhapuri

Prof. G. D. Satpute
Asst Professor & HOD
Shri G. M. Arts and Science College,
Kurlheda

Dr. A. B. Dhote
Asst Professor & HOD,
N. S. Science & Arts College,
Bhadrawati



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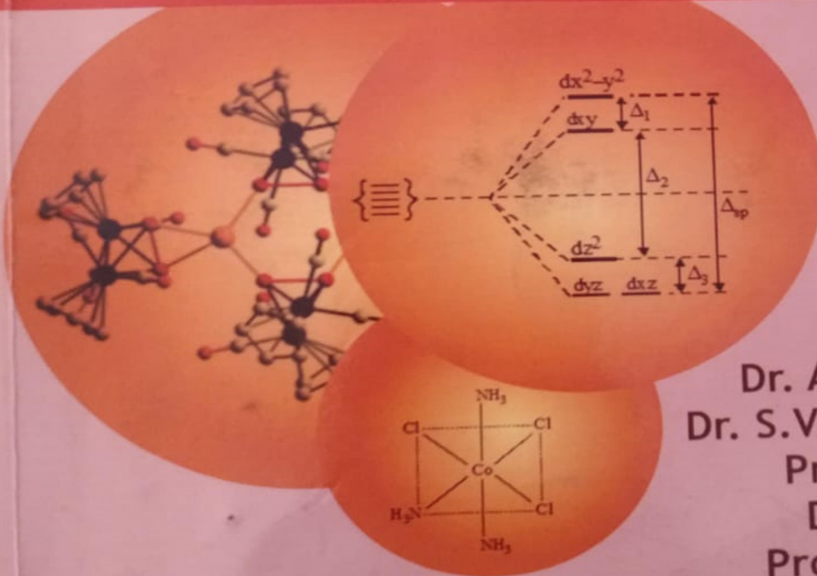
Chemistry

B.Sc. Semester IV (CBCS)

Paper - I : Inorganic Chemistry

Paper - II : Organic Chemistry

With Practical
Manual Inside



Dr. A.S. Ghatbandhe
Dr. S.V. Madhamshettiwar
Prof. Y. Thawari
Dr. A.B. Dhote
Prof. G.D. Satpute

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Paper - I (Inorganic Chemistry)

UNIT - I

- A) **Coordination Compounds:** Distinction among simple salts, double salts and coordination compound, Werner's coordination theory and its experimental verification, Sidwick's electronic interpretation, EAN rule with examples, Nomenclature of coordination compounds, Chelates: classification and their application, Valence bond theory of transition metal complexes.
- B) **Isomerism In Coordination Compounds:** Structural isomerism and stereoisomerism in coordination compounds.

UNIT - II

- A) **Hard Acid And Soft Acids And Bases:** Classification of acids and bases as hard and soft. Pearson's SHAB Concept and its applications. Acid-base strength of hardness and softness, Symbiosis. Theoretical basis of hardness and softness, electronegativity and hardness and softness.
- B) **Oxidation And Reduction:** Use of redox potential data: Analysis of redox cycle, redox stability in water:- Frost, Latimer and pourbax diagram, principle involved in the extraction of the element.

UNIT - III

- A) **Metal Ligand Bonding In Transition Metal Complexes:** Limitations of Valency bond theory, Crystal field theory: Splitting of d-orbital in octahedral, tetrahedral and square planar complexes. Factors affecting the Magnitude of $10Dq$, Crystal field Stabilisation Energy of Octahedral and Tetrahedral complexes (Numericals)
- B) **Electronic Spectra Of Transition Metal Complexes :** Jahn Teller Effect, Selection Rules (Laporte and Spin selection Rules). Hole Formalism Principle. Electronic spectrum of $[\text{Ti}(\text{H}_2\text{O})_6]^{3+}$ and $[\text{Cu}(\text{H}_2\text{O})_6]^{2+}$ complex ions

UNIT - IV

- A) **Thermodynamic And Kinetic Aspect Of Metal Complexes:** Thermodynamic and Kinetic stability of metal complexes, their relation. Stepwise stability and overall stability constant and their relationship, Factors affecting the Stability of complexes. Determination of composition of Fe(III)-SSA complex by Mole Ratio and Job's Method. [6L]
- B) **Colorimetry And Spectrophotometry:** Principles of photometry: Beer-Lamberts Law, And its deviation. Types of colorimeter and spectrophotometer with simple schematic diagrams. Application of colorimeter and spectrophotometer in quantitative analysis with reference to estimation of Cu(II) as Cu-ammonia complex.

Paper - II (Organic Chemistry)

UNIT - I

- A) **Nitro Compound:** Preparation of nitroalkanes and nitroarenes, chemical reactions of nitroalkanes, mechanism of nucleophilic substitution in nitroarenes and their reduction in acidic, neutral and (mp) alkaline medium. Preparation and uses of Picric acid.
- B) **Amino compounds:** Structure and nomenclature of amines by Heisenberg's method. Separation (mp) of mixture of primary, secondary and tertiary amines Structural features affecting the basicity of amines. Amine salts as phase transfer catalyst, preparation of alkyl and aryl amines (reduction of nitro compounds, nitriles, reductive amination of aldehydic and ketonic compound and Hoffman-

broamamide reaction: Reaction of amine: electrophilic aromatic substitution in aryl amine, reaction of amine with nitrous acid.

- C) **Diazonium salt:** stability & preparation of benzene diazonium chloride, mechanism of diazotization, replacement of diazo group by H, OH, F, Cl, Br, NO₂, CN, groups. Reduction of diazonium salt to hydrazine, coupling reaction and its synthetic applications.

UNIT - II

- A) **Organometallic Compounds:** Synthesis, structure and chemical reaction of organo Mg, Zn & Li compounds.
Method of preparation and chemical reactions of
i) 1,3 Dithiane Anionon – umpolung
ii) Sulphur Ylides.
iii) LDA (Lithium di-isopropyl amide)
iv) Woodward and Prevost Hydroxylation
- B) **Heterocyclic Compounds:** Molecular orbital picture and aromaticity of furan, thiophene, pyrrole and pyridine. Methods of synthesis of pyridine. Mechanism of electrophilic and nucleophilic substitution reaction of pyridine. Chemical reaction of pyridine. Structure of pyridine. Comparison of basicity of pyrrole and pyridine. Introduction to condensed five and six membered heterocycles. Preparation and reactions of Quinoline. Structure of Ferrocene

UNIT - III

- A) **Amino Acids, Peptides and Proteins:**
Preparation of Amino Acids: Strecker synthesis using Gabriel's phthalimide synthesis. Zwitterion, Isoelectric point and Electrophoresis.
Reactions of Amino acids: ester of -COOH group, acetylation of -NH₂ group, complexation with Cu²⁺ ions, ninhydrin test.
Classification of proteins, Overview of Primary, Secondary, Tertiary and Quaternary Structure of proteins. Synthesis of simple peptides (upto dipeptides) by N-protection (t-butyloxycarbonyl and phthaloyl) & C activating groups and Merrifield solid-phase synthesis.
- B) **Quantitative Analysis:** Estimation of C, H, N, S & X (Only principle and calculation, Kjeldahl's and Carius method), Calculation of Empirical and molecular formula.

UNIT - IV

- A) **Carbohydrates:** Classification, and General Properties, Glucose and Fructose (open chain and cyclic structure), Determination of configuration of monosaccharides, absolute configuration of Glucose and Fructose, Mutarotation, ascending and descending in monosaccharides. Structure of disaccharides (sucrose, cellobiose, maltose, lactose) and polysaccharides (starch and cellulose) excluding their structure elucidation.
- B) **Synthetic Dyes:** Colour and constitution (Witt's theory, electronic concept) Classification of Dyes based on chemical constitution. Synthesis and uses of methyl orange, Congored, Phenolphthalein, Indigo dye and Alizarin.
- C) **Drugs:** Definition, qualities of ideal drugs. Basic terminology of drugs (i) Analgesic (ii) Antipyretic (iii) Antibiotics (iv) Tranquilizer (v) Anaesthetic (vi) Antihistaminic (vii) Hormones (viii) Vitamins (ix) Narcotics and Non-Narcotics (Only Definitions). Synthesis and Applications of (i) Aspirin (ii) Paracetamol and their side effects. Uses of detol (its Composition), Chloramin-T, Calmpose. Classification of antibiotics with examples.

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As per New Semester-wise Syllabus of Gondwana University

CHEMISTRY

B.Sc. Semester IV (CBCS)

Paper I - Inorganic Chemistry

Paper II - Organic Chemistry

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Recent Trends in Chemical and Material Sciences Vol. 6



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This book covers key areas of Chemical and Material Sciences. The contributions by the authors include bamboo fiber, PP composite, montmorillonite, natural fibers, esterification, radioanalytical method, organic matter, phosphorus sludge, cottrell dust, coal mining waste, humic acid, organomineral fertilizers, Mining method, fly ash, coal combustion, waste management, sputtering, mesoporous TiO₂ heterojunction, optical properties, diode properties, double exposure holographic interferometry, young's modulus, nanocomposite, photoluminescent, energy band gap, Nanocrystalline materials, X-ray techniques, antimicrobial activity, energy dispersive X-ray spectroscopy, metal oxide nanoparticles. This book contains various materials suitable for students, researchers and academicians in the field of Chemical and Material Sciences

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Environmentally Benign Un-Catalyzed Esterification of Alcohols under Solvent-Free Condition Using Acetyl Chloride: An Experimental Investigation

Sangita S. Makone ^{a*} and Sandeep N. Niwadange ^b

DOI: 10.9734/bpi/rtcams/v6/5322F

ABSTRACT

A general and practical route for un-catalyzed esterification of alcohols using acetyl chloride is described under solvent free and energy efficient conditions. Nowadays, the reactions under catalyst and solvent-free conditions are considerably safe, nontoxic, environmentally friendly and inexpensive. Excellent yields, wide applicability to various alcohols, mild reaction conditions, short reaction time, ease of operation makes this method economic and environmentally benign. The advantages of methodology, solvent free, catalyst free, energy efficient and environmentally benign conditions, simple work-up procedure and easy and green separation of the formed HCl will lead to this protocol a green technique for practical organic synthesis.

Keywords: Esterification; un-catalyzed; solvent-free; acetyl chloride; alcohol.

1. INTRODUCTION

Functional group protection and deprotection is an important in synthetic organic chemistry. Amongst protecting groups for alcohols the esters are the most important with acetates being simplest and easiest of all. Ester protects the -OH groups particularly during oxidation, peptide coupling and glycosylation reaction [1]. The success of peptide drugs, notably glucagon-like peptide 1 receptor agonists, and a promising pipeline of peptide drugs has renewed interest in synthetic peptides. Additionally, the rapidly emerging field of peptide-based biomaterials has further stimulated demand. The majority of synthetic peptides are now prepared by Fmoc solid-phase peptide synthesis [2,3]. Also ester groups are highly important in chemistry and can found in bulk chemicals, fine chemicals, natural products and polymers [4]. Esters are prepared using transition metal catalyzed cross-coupling reactions which involved the carbonylation of aryl halides [5,6] but presence of halide anion and reaction conditions are not environmentally benign. Another way of synthesis of esters is an oxidative esterification of aldehydes with alcohols [7,8,9,10,11] using stoichiometric amounts of metal salts like KHSO_5 (oxome) or MnO_2 as an oxidant [12,13]. Many of the esterification reactions were reported using homogeneous basic catalyst such as amine [14], DMAP [15,16], tri-butyl phosphine [17] or acidic catalyst like p-toluene sulfonic acid [18], COCl_2 [19], $\text{Sc}(\text{OTf})_3$ [20] or $\text{Bi}(\text{OTf})_3$ [21] with acid chloride or acid anhydride as the acetylating agent. However, the use of homogeneous catalyst possesses several problems such as difficulty in the separation and recovery of the catalyst, disposal of the spent catalyst, corrosion problems. Traditionally esters are prepared by the reaction of activated derivatives like acyl chlorides and acyl anhydride in presence of base [22,23]. Later modifications involve use of Lewis acid [24,25,26,27,28] in combination with Ac_2O which is inherently wasteful since half of the every acid anhydride molecule loses as a carboxylic acid. Among the various base catalyst used for esterification of alcohols using acid chlorides, the most common are 1,4-diazabicyclo[2.2.2]octane (DABCO) [29,30], N,N,N,N-tetra methyl ethylene diamine (TMEDA) [31] and NaOH (Volker 1979). Few other catalysts are also reported for these syntheses are Al_2O_3

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8. Dr. S. N. Niwadange





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USE OF IONIC LIQUID PERSPECTIVES IN THE SYNTHESIS OF 3-ARYL-4-SUBSTITUTED COUMARINS FROM O-HYDROXY CARBONYL COMPOUNDS

Ali Abdurraheem Abdul Kareem^{1*}, Mrs. Sangita Sanjay Makone³ and Dr. Sandeep Nivruttirao Niwadange²

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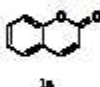
ABSTRACT

The given method introduces the ionic liquid perspectives in synthesis of 3-aryl-4-substituted coumarins from o-hydroxy carbonyl compounds. Method includes the intramolecular cyclization of the esters of substituted aldehyde and 2-hydroxyaromatic ketones which used to the synthesis of 3-aryl-4-substituted coumarins by using ionic liquid in PEG-400 as a green solvent at room temperature. The advantages of this method are short reaction time, avoiding harsh reaction conditions, high yield and ease of easy work up and reuse of ionic liquid.

Key-words- 3-aryl-4-substituted coumarins, o-hydroxy carbonyl compounds, ionic liquid, PEG-400, room temperature.

INTRODUCTION:

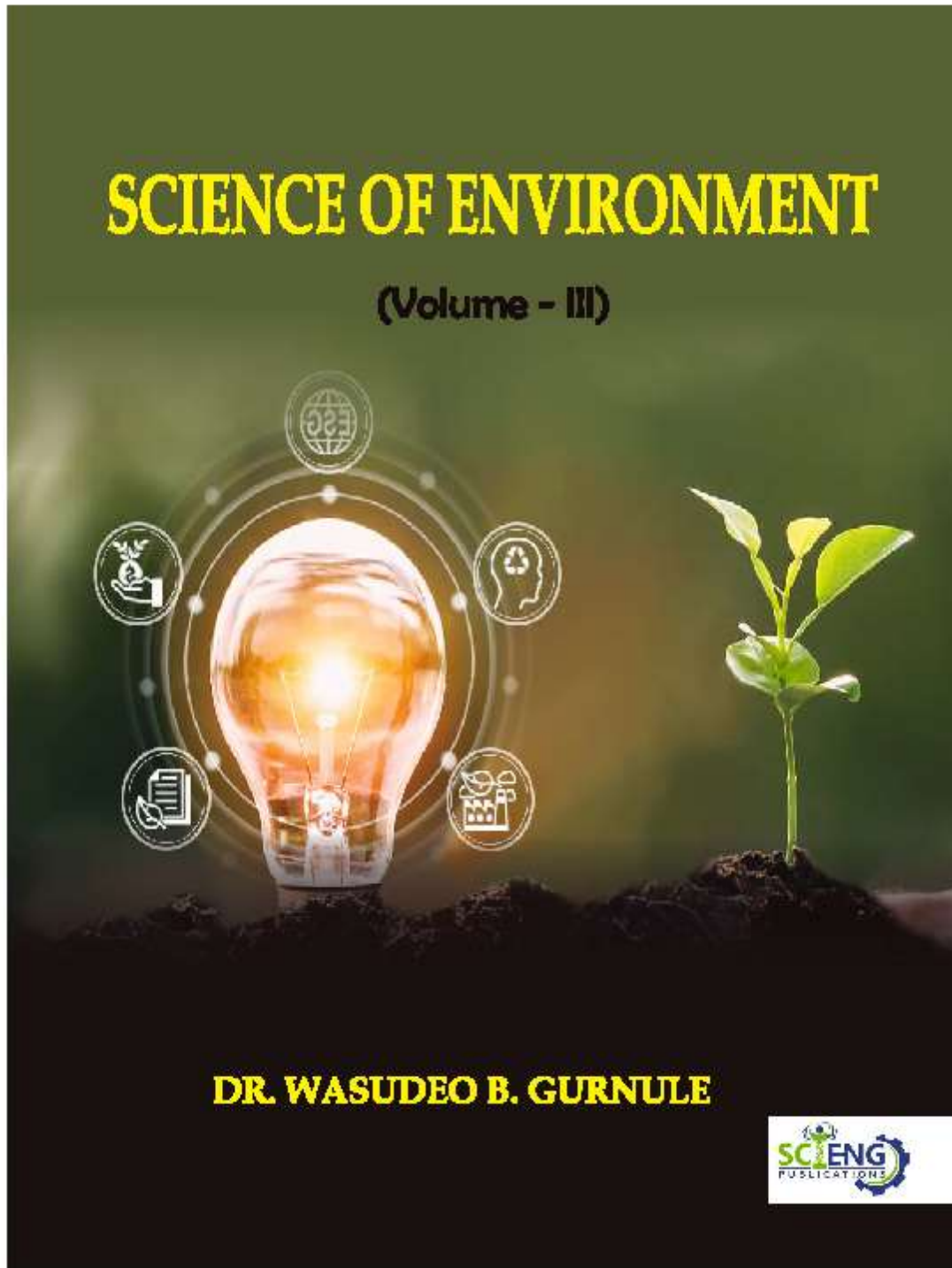
Coumarins represent a class of organic compounds, which occurs naturally in a number of plants. It is heterocyclic compound possessing phenolic and heterocyclic ring with oxygen heteroatom. Coumarins are simple or having substituents in the phenolic nucleus and in the heterocyclic ring. Coumarins are also well known for their considerable biological and medical activities as they form a family of active compounds. Coumarin (2H-1-benzopyran-2-one) (1a) moiety has following structure and is a widely occurring secondary plant metabolite. Coumarin is isomer of chromone (1b)



Coumarin derivatives exist widely in nature especially in plants and many of them show a wide range of biological activities, coumarins play an important role in the reaction natural and synthetic organic chemistry. Coumarins and their derivatives are used in the fields of biology, medicine and polymer science. They are also present or used in perfumes, cosmetics, cigarettes, [1-5], alcoholic beverages [6] and laser dyes [7]. Coumarins have been found to be connected with a number of cases of homicide and suicide in Korea [8]. Coumarins were first synthesized using Perkin reaction in 1868, and many simple coumarins are still prepared through this method. In the early 1900s, the Knoevenagel reaction emerged as an important synthetic method to synthesize coumarin derivatives with carboxylic acid at the 3-position [9,10]. To date, many other synthetic methods for coumarins have been reported, including the Pechmann [11], Reformatsky [12] and Wittig reactions [13, 14]. Coumarin derivatives are readily synthesized by the above mentioned reactions; however, they usually require harsh reaction conditions and non-environmentally friendly solvents. Recently some good methods for synthesis of coumarin have developed [15-17]. For instance, ionic liquids have attracted extensive interest as environmentally benign reagent to their favorable properties, and a variety of catalytic reactions have been successfully conducted using ionic liquids as solvent [18-20].

Many reported methods [21-28] suffer from strong acidic conditions, prolonged reaction times, low yields and high cost of the reagents. This obviously warranted further investigation into finding an alternative method to afford mild reaction conditions, short reaction times, and better yields. Our experiments using ionic liquids (ILs) as green catalyst provided the answer. In recent times, the use of ionic liquids (ILs) as green solvents in organic synthesis process has gained considerable significance because of their negligible vapor pressure, solvating ability and easy recyclability. Additionally, some ILs possess inherent Lewis/Bronsted acidity which promotes and catalyzes organic transformations in excellent yields. On the basis of the findings of advantageous, herein we report a mild and efficient protocol promoted by ionic liquid, 1-hexyl-3-methylimidazolium chloride ([hmim]Cl) in excellent yield and short reaction times. The literature survey for synthesis of coumarins and perspective of ionic liquid promote to develop this method. Thus, the non-volatile ionic liquids were effectively recovered and reused. The process does not require any additional catalyst (Scheme 01).

9. Mrs. T. D. Wakde



SCIENCE OF ENVIRONMENT

Volume - III

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Chapter**6****Environmental Impacts of Climate Change****¹TRUPTA D. WAKDE, & ²PRAVIN K. THIKARE**

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ABSTRACT

Convincing evidence that the Earth's climate is changing dramatically and alarmingly has built quickly in recent years, particularly during the last three decades. Global warming, on the other hand, is a fact backed up by a massive body of evidence from a variety of sources. Indeed, scientific efforts have switched away from proving the presence of global warming and toward determining its causes. Although the precise level of damage caused by global warming is difficult to estimate at this time, it can be argued with certainty that the negative impacts of global warming on the climate will far outweigh any potential advantages. The chances are highly high that human-made greenhouse gases, particularly carbon dioxide, are the principal cause of today's well-documented global warming and climate change. Climate change has a number of negative consequences for agriculture, water resources, forests and biodiversity, health, coastal management, and temperature rise. Climate change would add to the stress placed on natural and socioeconomic systems, which are already under immense strain as a result of rapid industrialization, urbanization, and economic expansion. This study discusses the impact of climate change and its many components.

KEYWORDS: Global warming, Climate change, Carbon dioxide, Methane, Sea level rise, Greenhouse gas.

INTRODUCTION

Human beings have had a long history of influencing the environment. However, human activities have only recently begun to have a worldwide impact since the beginning of the industrial revolution. As a result of scientific evidence about the increasing concentration of greenhouse gases in the atmosphere and the changing temperature of the Earth,

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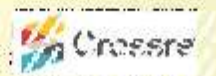
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The Application of Biotechnology for Sustainable Future

Trupti Deorao Wakale

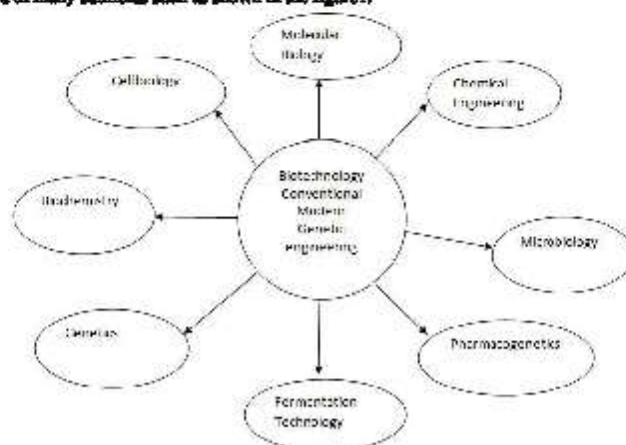
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Abstract: *As the industrialisation increases globally there is severe threat to land resources. To make our world a more suitable habitat and sustainable ecosystem for our next generation we have to make development in greening methods along with we have to go for natural remedy to eliminate hazardous substances from the environment in natural way. Sustainable development has been prioritized by top governments around the world. Biotechnology has taken a prominent place among the different strategies used to attain the objective of sustainability, particularly in the fields of bioremediation and food production, renewable raw materials, energy production, prevention of environmental pollution, biofuels, Biopesticides, genetically modified plants and animals, Biofertilizers, and Bioplastics. However, there are still certain technical and financial concerns to be resolved. This paper discusses biotechnology applications for a more sustainable future.*

Keywords: Biotechnology, Sustainability, Food Production, Bioremediation, Renewable Raw Materials

I. INTRODUCTION

As we are aware of the hazardous issues hovering over world, is it being increase population, excessive industrialization or capitalism. All of this has resulted in poverty, starvation, environmental degradation, health problems, epidemics, and other problems. If we want to overcome these problems, we must focus on sustainable development. The sustainability challenges to fulfill the demand of increasing population by enhance production per hectare agriculture area without negative impact on the environment for next generation. And this difficult problem cannot be solved until we adopt new age technology and one of them is biotechnology. Biotechnology is wide field which is composed of many subfields such as shown in the figure1.



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Handbook for
Higher Education Administrators

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Handbook for **Higher Education Administrators**

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Preface

In higher education to promote quality, transparency and accountability in the working of every HEIs. A clear knowledge of the provisions of the act/bills/ regulations to the officers of the colleges/universities/ government officers, is key to the successful implementation of the quality education. During the course of evolving of the acts and regulations, UGC has issued clarifications on various provision of the regulations/ bills. For the convenience of the citizens/stakeholders, a handbook with topic wise search facility and consolidate content is prepared. It is hoped that topic based search of circulars, acts, regulations, public notice, etc., issued by UGC, Parliament, Ministry, etc., and would further enhance the understanding of the provisions of the act by both information seekers and information providers. This would go a long way in further strengthening the day-to-day administration regime.

The authors of this handbook carefully selected the material to be included and presented it concisely and simply.

We hope that the Handbook will prove to be a useful tool that will greatly facilitate, sustain and contribute to the achievement of excellence in the harmonized management of higher education.

Reader feedback on the content or presentation of this book would be greatly appreciated and can be sent to the address and mail written on back of the book.

**A. B. Solunke
R.S. Awasthi
V.S.Hamde
P.S.Wakte**

Handbook for Higher Education Administrators

AS

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12. Dr. A. B. Solunke

The wreak havoc of HIV and AIDS is to be ever-increasing in the number of individuals, couples, families, and communities in the coming decades. The global AIDS epidemic has become one of the world's make-or-break social, economic, development, and humanitarian crises, no longer solely a public health problem. The epidemic has come to represent a threat to human security itself.

This book presents a compilation of a wide range of acts, bills made by the Government of India in the administration of AIDS/HIV at the workplace and society. It is useful for the students, parents, administrators, parliamentarians, and other elected officials in promulgating and enacting effective legislation and undertaking appropriate law reform in the fight against AIDS. The introduction of the bills and act in the syllabus will enrich the students with knowledge of the acts and bills that are prevailing in the country.



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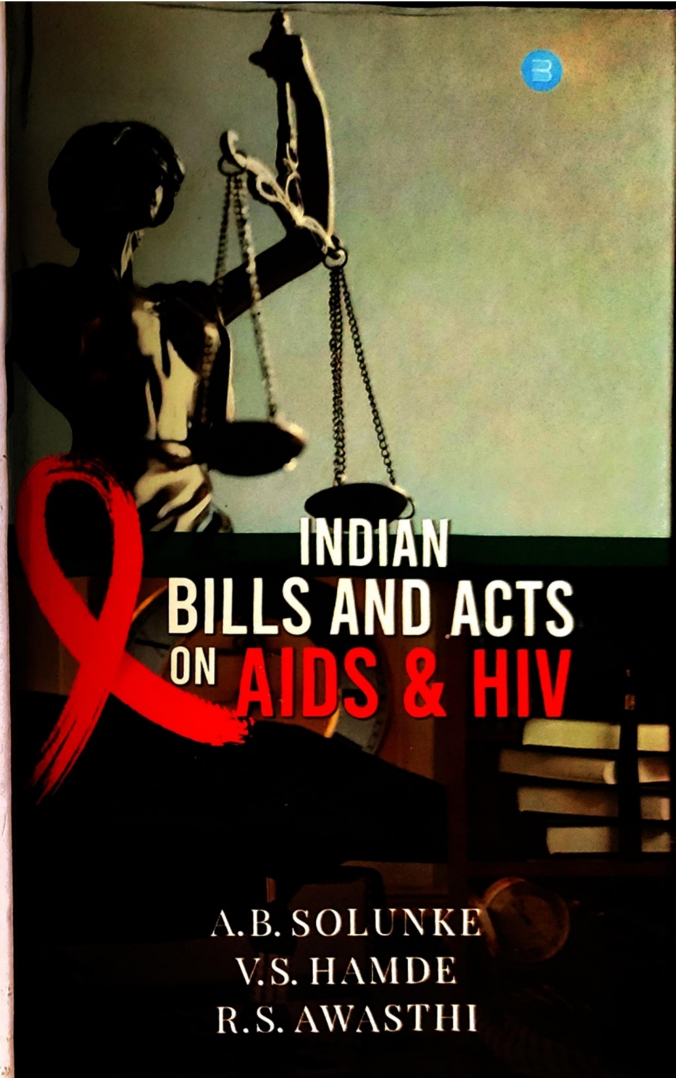


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INDIAN BILLS AND ACTS ON AIDS & HIV

A.B. SOLUNKE
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**INDIAN
BILLS AND ACTS
ON AIDS & HIV**

A.B. SOLUNKE
V.S. HAMDE
R.S. AWASTHI



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Preface

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The purpose is to increase understanding, awareness and appreciation of the diverse values of law necessary to create the willingness to undertake the behavioral changes required to conserve and sustain. Constitution of India places obligations on the State to ensure protection and fulfillment of right.

The Constitution of India enumerates the separate and shared legislative powers of Parliament and State Legislatures in three separate lists under Schedule VII: the *Union List*, the *State List* and the *Concurrent List*. The Parliament and State legislatures share authority over matters on the Concurrent List This will also serve the dream of our freedom fighters and the makers of constitution to know the bills, act, and laws that will help in making the true constitutional Indian. The book has managed to present most of the critical issues surrounding debates over the issues arising before the nation.

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13. Dr. A. B. Solunke

INDIAN BILLS AND ACTS IN BIOTECHNOLOGY AND MICROBIOLOGY

The book deals with the bills and acts of India that are related to the Biotechnology & Microbiology. The bills and acts passed in both houses. The acts governing the diseases, formation of labs, etc., is covered in this book. The acts become rules and these are to be known by administrators of higher education, students, researchers, etc. The introduction of the bills and act in the syllabus will enrich the students with knowledge of the acts and bills that are prevailing in the country. They will also share the ideas on draft if introduced at the graduate/ postgraduate level. The book is an attempt of compilation the acts and bills so that it may serve the ready reference for the university/college personals for their reference in administration, while framing the syllabus, making infrastructure and dealing with the issues related to the grievances. The purpose is to increase understanding, awareness and appreciation of the diverse values of law necessary to create the willingness to undertake the behavioral changes required to conserve and sustain. Constitution of India places obligations on the State to ensure protection and fulfillment of right.



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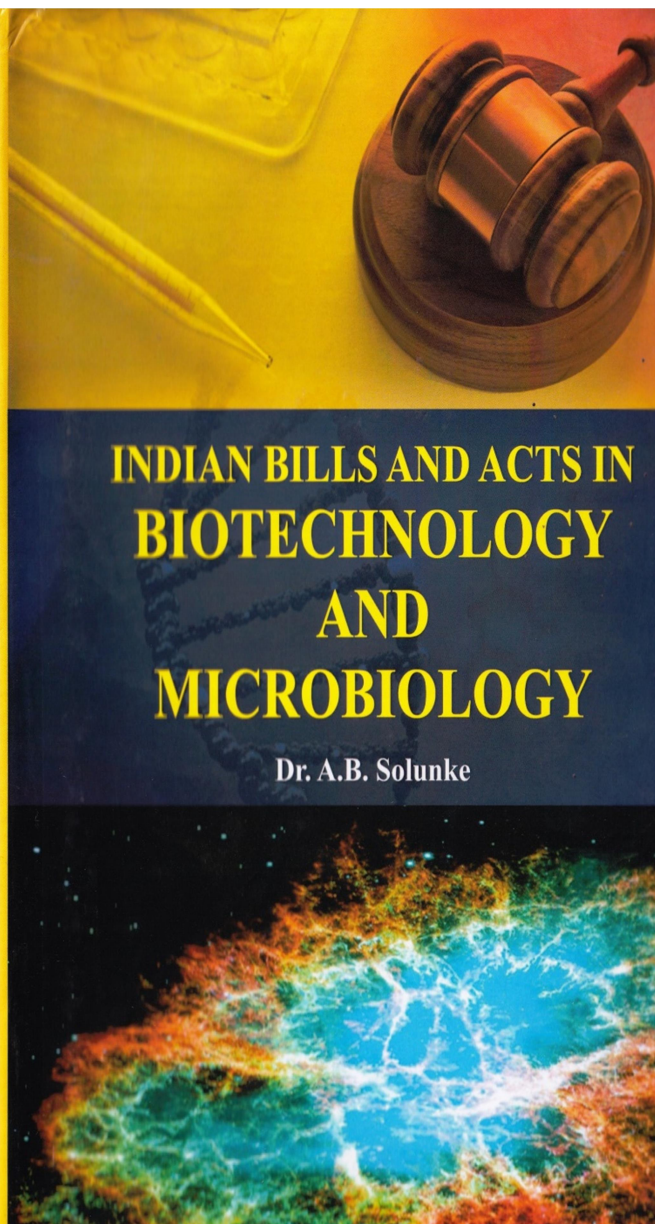


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Dr. A.B. Solunke

**INDIAN
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A.B. Solunke

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- He has Published 22 Research papers in reputed international and national Journal and conference.
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FORWARD

I am very happy to present the Corona Dictionary to the readers in book form. Corona is a life-threatening disease caused by a small virus. It started in Wuhan, China and spread all over the world, in it he ruled over all the countries of the world, meanwhile every government declared a lockdown. As a result, many new words like lockdown, corona virus, quarantine, self-isolation came to the notice of the people of the world.

Under the constant inspiration and Guidance Dr. Rajabhau Munghate Saheb Principal of Shri Govindrao Munghate Arts and Sciences College Kurkheda and President of Dandakaranya Educational and Cultural Development Research Institute Gadchiroli he undertook the task of compiling the book Corona Dictionary and it was completed. In order to make the general public aware of the meaning of these words. It is hoped that this dictionary will be of use to all.

I am indebted to all my mentors, colleagues Dr. Abhay Solunke, Dr. Amit Ramteke, Dr. Ravindra Vikhar, parents, as well as my wife Mrs. Surekha and little daughter Ku. Alveera for their valuable help in this dictionary.

I am indebted to Harshvardhan Publications for taking the responsibility of publishing this book in such a short time. I hope readers will suggest some corrections and use it to help the next edition.

Yours sincerely
ASSIT.PROF. BHASKAR V TUPTE

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2. Mr. B. V. Tupte



Photoluminescence in $\text{NaCa}_2\text{Br}_5:\text{Eu}^{2+}$ Novel Phosphor.

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ABSTRACT

A simple procedure to prepare Eu^{2+} activated bromide phosphor NaCa_2Br_5 is described. Sample was synthesized by simple low temperature wet chemical method. Photoluminescence (PL) results showed that the phosphor can be efficiently excited by UV-visible light from 200 to 430 nm and exhibited bright blue emission around 435 nm when excited by 365 nm near-ultraviolet light. The developed phosphor emits in blue and hence could provide one of the three primary colour components in phosphor converted LED producing white light.

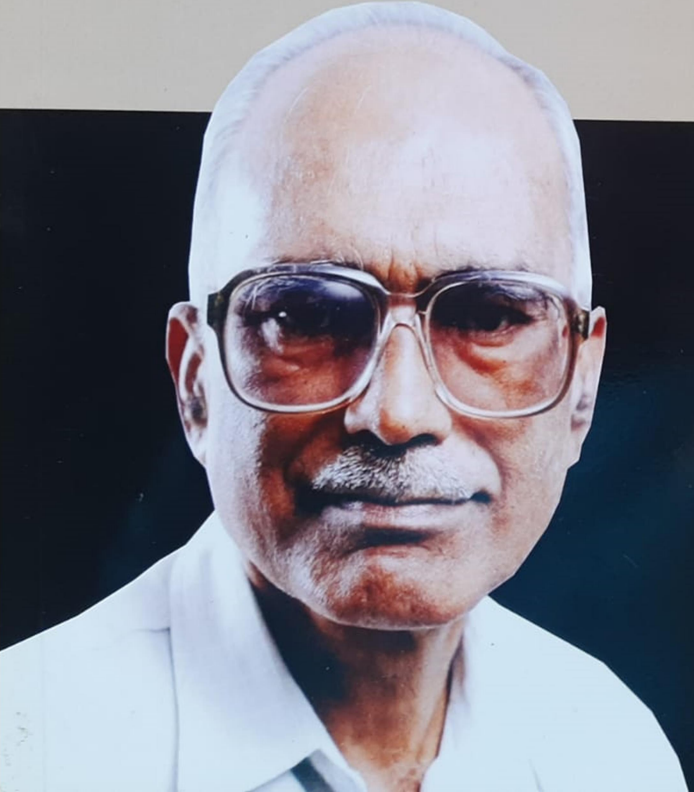
Keywords: Solid State Lighting, wet chemical synthesis, blue phosphor, photoluminescence

INTRODUCTION


Solid state lighting have a very bright future in various lighting applications because of their high energy efficiency and cost effectiveness compared to incandescent bulbs. It has the potential to make much more progress over the coming decade. A very effective way to produce white light from UV/blue LED is by coating on LED suitable phosphors excitable by LED light, so that white light is produced either by mixing of basic colours or complementary colours. Blue is at the short-wavelength (high-energy) end of the visible spectrum, it proved possible to “down convert” blue light into green, yellow and even red light using passive phosphorescent and fluorescent materials [1].

3. Dr. N. T. Arekar

शब्दयोगी
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डॉ. नरेंद्र तु. आरेकर



लेखकाचा परिचय




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 गोंडवाना विद्यापीठ मराठी
अभ्यास मंडळ सदस्य
 गोंडवाना विद्यापीठ विद्यार्थी
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आकार
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डॉ. हरिश्चंद्र बोरकर यांनी मराठी बोली विशेषतः झाडीबोलीच्या संदर्भात विशेष लक्षणीय कार्य केले. समग्र मराठी बोलीचे एक व्यासपीठ असावे, बोर्लीच्या अभिवृद्धीकरिता मंथन व्हावे, ही त्यांची तळमळ आहे. बोली जीवंत असायला हव्यात. प्रमाण भाषेला शब्दसंपत्ती पुरविण्याचे कार्य बोलीच करीत असतात. बोलीतच समाजमानस व लोकसंस्कृती अभिव्यक्त होत असते. 'बोली वाचवा अभियान' हा त्यांचा श्वास आहे. वऱ्हाडी, कोकणी, अहिराणी, मालवणी या बोली बरोबरच झाडीबोलीलाही मानाचे स्थान प्राप्त व्हावे व विद्यापीठ स्तरावर आणि शासन स्तरावर या बोलीचा भाषावैज्ञानिक अभ्यास व्हावा याकरिता त्यांनी अहोरात्र प्रयत्न केले आणि ते यशस्वी झाले.

दंडार, खडीगंमत, डहाका, तमाशा, गोंधळ या समाजजीवनाचे वास्तव दर्शन घडविणाऱ्या लोककला जीवंत राहाव्यात आणि लोककलावंतांना शासकीय मदत मिळावी यासाठी त्यांनी केलेले कार्य उल्लेखनीय आहे. मराठीच्या सर्व वाङ्मयप्रवाहात त्यांनी लीलया अवगाहन करून यशस्वी झाले आहेत.

डॉ. नरेंद्र आरेकर हे एक उमलते संशोधक, अभ्यासक असून उत्तम वक्ते व निवेदक म्हणून परिचित आहेत. त्यांनी सदर ग्रंथातून डॉ. हरिश्चंद्र बोरकरांच्या व्यक्तिमत्त्वाचे वाङ्मयीन पैलू अत्यंत चिकित्सकपणे वाचकांसमोर सादर केले आहे. बोली, लोककला व अन्य साहित्य प्रकारांचा तसेच वाङ्मयीन व्यक्तित्वाचा अभ्यास करणाऱ्या अभ्यासकांना हे पुस्तक सहाय्य ठरेल.

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भंडारा

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© सौ. रजनी नरेंद्र आरेकर

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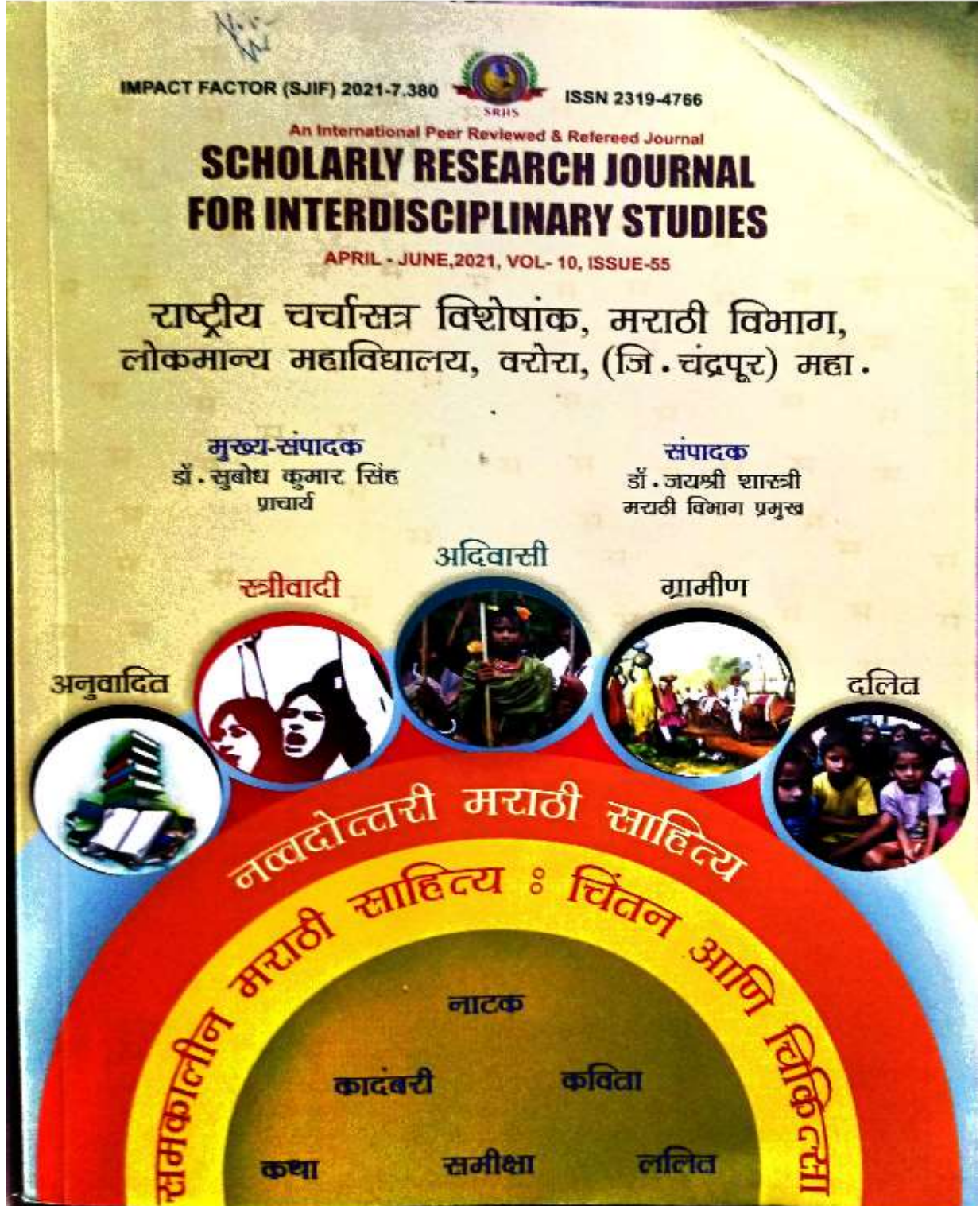
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अनुक्रम

१. डॉ. हरिश्चंद्र बोरकर यांचे लौकिक
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4. Dr. N. T. Arekar



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जागतिकीकरणात समकालीन मराठी कवितेचे स्वरूप**डॉ. नरेंद्र तुकडोजी आरेकर**

श्री. गोविंदराव मुनगाटे महाविद्यालय, कुरखेडा, जिल्हा- गडचिरोली, भ्रमणभाष- १४२१७३१०८३



साहित्य हे काळाशी सुसंगत असते. त्या त्या काळाची इत्ती-प्रवृत्ती, विचार, मन मानसिकता आणि लेखकाचा दृष्टिकोन हा साहित्यातून प्रतिबिंबित होत असतो. माणसाच्या वाटनालीत त्याचे साहित्यही त्याबरोबर चालत असल्याचे दिसून येते. साहित्याची निर्मिती करणारा संवेदनशील मनाचा लेखक, कवी त्या-त्या काळातील घडणा-या घटनांचा साक्षीदार असतो आणि त्या काळात जगत असताना त्याला आलेले प्रत्यक्ष अनुभव तो आपल्या साहित्यात मांडत असतो. त्यामुळेच सनकालीन परिप्रेक्ष्यत सनाजात घडलेली विविध स्थित्यंतरे मराठी साहित्यानेही टिपल्याचे दिसून येते. जागतिकीकरण ही भिन्न भिन्न आर्थिक, राजकीय आणि सांस्कृतिक प्रवाहांना सग्यावून घेणारी संज्ञा आहे. जागतिकीकरण ही अवस्था आहे, आणि सिध्दातही आहे. परंतु वर्तमान काळात जागतिकीकरण या शब्दाचे अर्थ म्हणून आर्थिक उदारमतवाद, मुक्त बाजारपेठ, पश्चिमीकरण किंवा अमेरिकीकरण, इंटरनेट क्रांती, जागतिक एकात्मता हे प्रतिशब्द वापरले जातात.

जागतिकीकरण हे शेतात वापरल्या जाणाऱ्या दंताळ्यासारखे आहे असे म्हटले जाते. त्याला अनेक दाते आहेत. सामाजिक क्षेत्राच्या आर्थिक, राजकीय, सांस्कृतिक विभागांना त्याने व्यापले आहे. त्यामुळे वेगवेगळ्या भूमिकांतून, भिन्न भिन्न विद्याशाखांच्या माध्यमातून त्याचा विचार केला जातो. अर्थशास्त्र, औद्योगिक, वित्तव्यावसायिक, राजकीय, माहितीविषयक, भाषा, स्पर्धा, सांस्कृतिक, पर्यावरणीय, सामाजिक अशा विविध क्षेत्रांचे निरीक्षण केल्यास सर्वांचा जागतिकीकरणाशी संबंध आलेला दिसतो. त्यामध्ये भाषा आणि सांस्कृतिक क्षेत्राचा विचार केल्यास जागतिकीकरणात इंग्रजी भाषेला आन्वयितिक महत्त्व आलेले आहे, त्यामुळे इतर भाषांचे ध्वितव्य काय? असा प्रश्न उपस्थित झालेला आहे. जगातील एकतुल्यता लोकांना इंग्रजी भाषा समजते. २०५० पर्यंत अर्थे जग ही भाषा बोलू लागेल असे म्हटले जाते.

भिन्न भिन्न संस्कृतींचा परस्परशी संबंध येत असल्यामुळे सांस्कृतिक अधिसरण चढते आहे. आपले जीवनमान वाढवणे, परदेशी वस्तूंचा आणि कल्पनाप्रणालींचा स्वीकार करणे, नवे तंत्रज्ञान आत्मसात करणे आणि जागतिक संस्कृतीत सहभागी होण्याला चालना मिळालेली आहे. यातूनच उपभोक्तावादाची वा चंगळवादाची निर्मिती होण्याची शक्यता असते.

माणसाबरोबर त्याचे साहित्यही जागतिकीकरणात पेंडोवले आहे. कागदावरून ते आता ई कागदावर, मोठमोट्या दुकानांतून संगणकाच्या ब्लॉगवर पोहचले आहे. ई कादंबऱ्या, ई कथा, ई कविता येत आहेत. याचाच अर्थ जागतिकीकरणातून आलेले तंत्रज्ञान आपले साहित्यही वापरताना दिसते. केवळ ते हे तंत्रज्ञानच वापरते असे नव्हे तर या तंत्रज्ञानाच्या, माहिती संप्रेषणाच्या काळात बदललेल्या मावी जीवनाला, गतीमान झालेल्या समग्र जिवाप्रणालीला आपल्या कवेत घेऊन अवतरते. कविता हा लोकप्रिय साहित्यप्रकार मानल्या जाते, समाजातील बदलाचे

5. Dr. N. T. Arekar



Shri Govindrao Munghate Arts and Science College,
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Organise
One Day Interdisciplinary National Conference (Online) on
The Impact of Covid- 19 and Existing Social
Problems with Context to Indian Society

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डॉ. नरेंद्र तुकडोजी आरेकर

श्री. गोविंदराव पुनघाटे, कला व विज्ञान महाविद्यालय, कुरुखेडा, जि. गडचिरोली.

अतिशय प्राचीन व समृद्ध परंपरा लाभलेल्या भारताला आजतागायत अनेक कठीण प्रसंगांना सामोरे जावे लागले. देशापुढे उभ्या राकलेल्या कित्येक अस्मानी व सुलतानी संकटांना देशाने परतावून लावले. आक्रानांचा सामना करणाने यापुढील इशल्या मातीत आहे. हे भारतीय इतिहासाचा वेध घेतांना निदर्शनास येते. काही आक्राने जागतिक पटलावरून भारतीय भूमीत अवतरली तर काही आक्राने देशांतर्गत उभी राहिली. अशा सर्व आक्रानांवर मात करीत जगाच्या पटलावर भारत अभिमानाने उभा आहे. प्रत्येक संकटातून काही तरी शिकत तो अधिक अनुभवसमृद्ध झालेला आहे. तरीही याचा अर्थ संकटे, आक्राने आली तरीही काहीही फरक पडत नाही असा छोट नाही. अचानक, अनाफलनीय अशा संकटामुळे देश अस्ताप्यस्त होतो. देशाच्या व्यवस्थेचा सुरळीत चाललेला गाडा अचानक थांबतो असेच काही जोखिड १९ या साथीच्या रोगाने केले. केवळ कोरोनाने आपल्या भारतालाच अशी खिळ बसवली असे नव्हे; तर या अतिरूपा अशा विषाणू जगाला विळखा घातला. डिसेंबर २०१९ मध्ये चिनच्या जुहान राहणातून उदयास आलेला हा विषाणू जगातील अनेक देशांच्या व्यवस्थेला उध्वस्त करीत अजुगही पुढे जात आहे आपले रूप-स्वरूप बदलून अधिक आक्रमक होत आहे. विज्ञानाच्या सहायाने अत्युच्च प्रगती केलेल्या मानवी समाजाला कोरोना विषाणूने हतबल करून टाकले आहे. १९९० नंतर जागतिकीकरणाने चिंत्कार केल्याने आदानप्रदानाची गती वाढलेल्या देशांना केवळ वस्तूंचे आदान प्रदानच नव्हे तर अशा साथरोगांचे आदान प्रदानही सहजताने करावे लागते आहे. कोरोनाचा विषाणू विदेशातून आला असला तरी आता भारतात त्याने आपला जग बसविला आहे. भारतीय समाजव्यवस्थेवर त्याचे अनेक परिणाम झालेले आहेत. कोरोना या साथरोगाला जागतिक परिमाण प्राप्त झालेला असून मानवी इतिहासात दोन्ही जागतिक महायुध्दानंतर मानवी जीवन हतवून काढणारी महत्त्वाची घटना म्हणून कोरोनाची नोंद होईल यात शंका वाटत नाही. विविध शास्त्रांचा अभ्यास करणारे अभ्यासक, तत्वचिंतक, शास्त्रज्ञ, विचारवंत जगाच्या वर्तमान स्वरूपाचा अभ्यास मांडतांना २०१९ पूर्वी आणि २०१९ नंतर असा उल्लेख न करता आपल्या अभ्यासाची गांठणी 'कोरोनापूर्व काळ आणि कोरोनानंतर काळ' अशी करू लागले आहेत. यावरून कोरोनाने आपल्या जगण्याच्या, आपल्या विचार करण्याच्या दिशांना व्यापून टाकले आहे. हे लक्षात घेते. त्यामुळे समग्र मानवी जीवनाला भावसमर्शा असलेल्या क्षेत्रांचे अवलोकन केल्यास शैक्षणिक, सामाजिक, सांस्कृतिक, कौटुंबिक, आर्थिक, राजकीय, भाषिक, मानसशास्त्रीय अशा विविध क्षेत्रांमध्ये अनेक बदल घडून आल्याचे दिसून येते.

कोरोनापूर्व काळात आपल्या भौतिक जगत एखादी घटना घडली तरी तिचे परिणाम केवळ एखाद्या क्षेत्राला मर्यादित अर्थाने बाधित करणाऱ्यांपर्यंत सीमित होते. उदा. भूकंप, युद्ध, दुष्काळ अशा मानवनिर्मित व

6. Dr. D. D. Ade

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४. कोरोना महामारी आणि भारतातील विसाळ नियोजन : एक दृष्टीक्षेप

प्र. डॉ. दशरथ धर्माजी आदे

इतिहास विभाग प्रमुख, श्री. गोविंदराव मुनघाटे, महा. कुनखेडा, जि-गडचिरोली.

प्रस्तावना

सध्या संपूर्ण जगाला हादरवून टाकणारी आणि दिवसेंदिवस त्याची तीव्रता अधिक वाढत जाणारी जागतिक समस्या म्हणजे कोरोना महामारी ही होय. **Corona Virus Disease-19** म्हणजेच **Covid-19** होय. 1919च्या डिसेंबरमध्ये चीनच्या **बुहान** शहरात **Covid-19** या नावाने सुरुवात झाल्या. तेथील लोक या विषाणूला बळी पडू लागले. यानंतर या विषाणूने चीनच्या काही भागात आपले हाक पाय पसरले आणि बघता बघता चीन पुढे या महामारीचे संकट उभे राहिले. संपूर्ण चीन हादरून गेला. तेथे त्यावर नियंत्रण मिळविण्याचे बुद्धपातळीवर प्रयत्न सुरु आले. 2020च्या प्रारंभी **Covid-19**चा विषाणू इराकमध्ये जगातील इतर देशात पसरू लागला. अत्यावधीतच त्याने संपूर्ण जग आपल्या कवेत घेतले आणि खऱ्या अर्थाने **Covid-19**चा महामारीचे जागतिक संकट निर्माण झाले.

भारतातील Covid-19

भारतात 29 जानेवारी 2020ला **Covid-19**चा विषाणूची लागण झालेला पहिला रुग्ण **केरळ**मध्ये आढळला. भारताने सुरुवातीस या विषाणूकडे फारसे गाभीर्याने लक्ष दिले नाही. 24 फेब्रुवारी 2020 रोजी भारतात **अमेरिकेचे राष्ट्राध्यक्ष डॉनल्ड ट्रम्प** यांचा दौरा नियोजित असल्याने केंद्र सरकारचे व विशेषतः माननीय पंतप्रधान नोदीजींचे लक्ष **नगस्ते ट्रम्प इव्हेंट** कॅश करीत डॉनल्ड ट्रम्प व पर्यायाने अमेरिकेची मर्जी संपादन करण्याकडे लागले होते. नगस्ते ट्रम्प हा नव्यदिव्य सोहळा अहमदाबाद येथे मोठ्या दिमाखात पार पडला. पंतप्रधानांनी इव्हेंट कॅश केला, तर कोरोना विषाणूने यावेळपर्यंत आपली पाळेमुळे भारतात चांगलीच पसरवली.

महाराष्ट्रात 9 मार्च 2020 ला पुण्यामध्ये पहिल्या रुग्णाची तर 17 मार्चला पहिल्या मृत्यूची नोंद केली गेली. मार्चपासूनच **Covid-19** चा संसर्ग मोठ्याप्रमाणात पसरू लागला आणि लवकरच त्याने रुग्णांचे जीव घेत उच्च रूप धारण केले. सर्व सामान्य जनतेमध्ये याबाबतची पुरेशी माहिती व त्यासंबंधाने घ्यावयाची काळजी आणि उपायोजना याबाबतची माहिती तसेच जाणीव जागृती होण्यापूर्वीच या रोगाची साथ भारतात अतिशय वेगाने पसरू लागली. 21 व्या शतकातील वैज्ञानिक युगात वायव्येला भारताच्या पंतप्रधानांनी कोरोनाला हलक्यावर घेत जनतेला टाळ्य आणि बाळ्या बाजविण्यासह दिवे लतावण्यास सांगितले. संपूर्ण भारतात या महामारीचा प्रकोप इराकमध्ये वाढल्याने जनतेमध्ये मोठ्या प्रमाणात भीतीचे वातावरण निर्माण झाले. अखेरीस पंतप्रधानांनी 24 मार्च 2020 रोजी संपूर्ण भारतात लॉकडाऊनची आकरिणरूपणे घोषणा केली.

7. Dr. A. G. Ramteke

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16. Women Identity at Conflict: Manju Kapur's "Difficult Daughters"

Amit G. Ramteke

Abstract

Manju Kapur's novel "Difficult Daughters" summarises the concern of women's self-identity at conflict with socio-cultural identity. The novel also traces a women's unique needs – the need to be loved, not to be relegated to a secondary status. Virmati the protagonist plug into a dedicated effort to carve an indenter a self –ideating of an height qualified woman with an impeccable background the novel ends with the woman protagonist's ultimate readjustment to the like situation and environment. This paper try to study the conflict of woman identify through the efforts and travails of the woman protagonist.

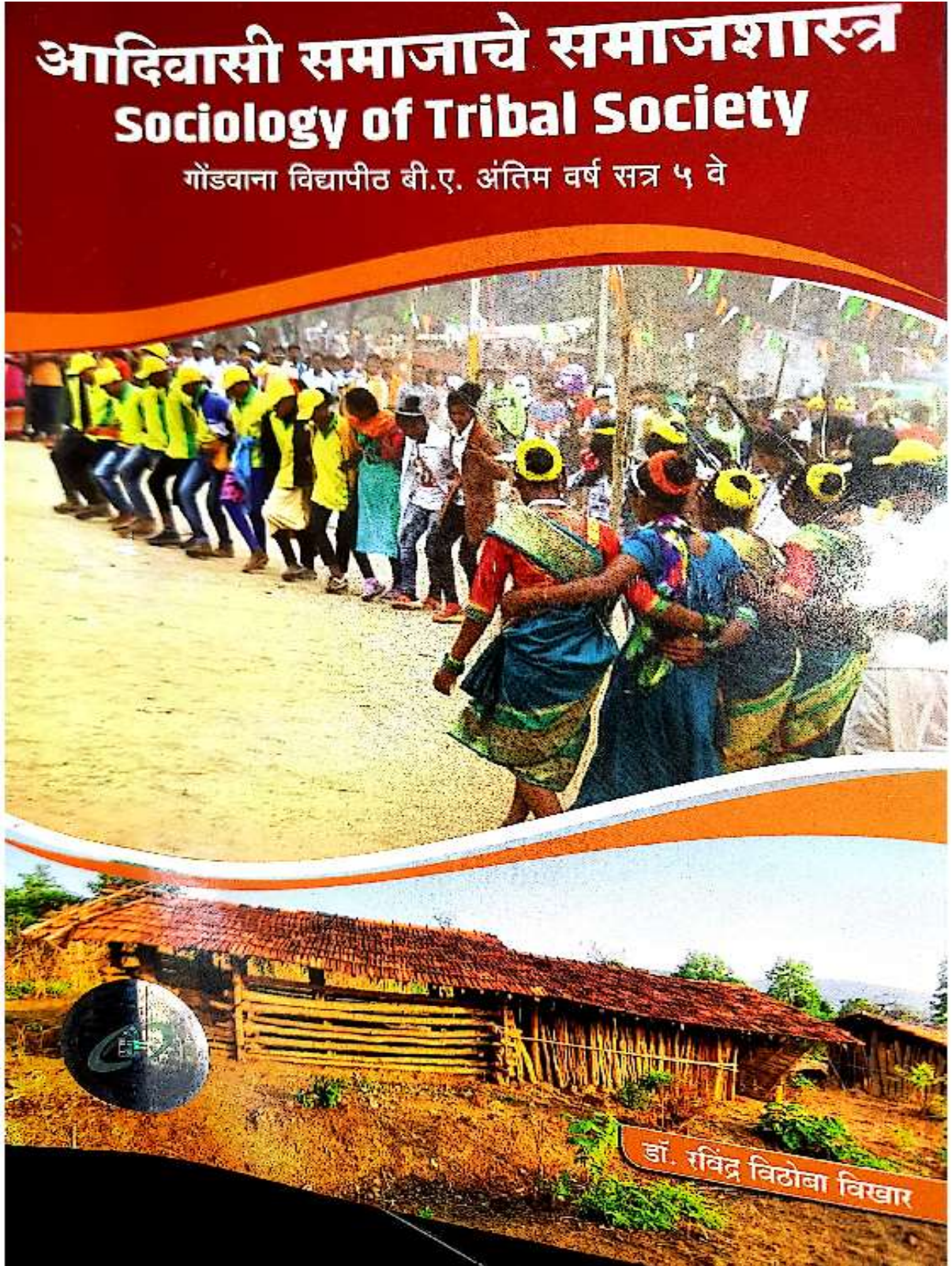
Key words:- 'Self-identity', socio-cultural identity, freedom, love, tradition and difficult daughters.

Introduction

The Indian woman novelists, who come up with a new trail worldwide, winning a critical acclaim and international recognition. Manju kapur's speaks with a great narrative eloquence in her first novel "Difficult Daughters", published in 1998. The quest for woman identity is one of the main theme of the novel.

The Indian woman novelists communicate with their own society as well as the global readers by the English as a medium of expression. These literary artists have succeeded in affirming their position and identity. The primary task of these woman novelists has been, to mediate between the traditional forces of Indian patriarchal system and the new demands of modernity. It is against the backdrop of woman concern the novel "Difficult Daughters" by the contemporary Indian woman novelist Manju Kaptur. Manju kapur who born in 1948, lives in Delhi, teaches at Miranda house university college for woman (Delhi university), was awarded the Commonwealth writers prize in the best first published book category (JurAsian Section) to her debut novel "Difficult Daughters". This was earned her very substantial success, both commercially and critically.

8. Dr.R.V. Vikhar



आदिवासी समाजाचे समाजशास्त्र बी.ए.अंत्य सत्र पाचवे

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9. Dr. R.V. Vikhar

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प्रा. डॉ. रविंद्र विठोबा विखार

समाजशास्त्र विभाग प्रमुख, श्री. गोविंदराव मुनघाटे कला व विज्ञान महाविद्यालय, कुरखेडा, जि. गडचिरोली (महाराष्ट्र).

प्रस्तावना

कोरोना या विश्वागुने झालेल्या महामारीला जागतिक आरोग्य संघटनेने महामारी म्हणून घोषित केले. कोरोना हा विश्वागुने आकाराने अतिशय सूक्ष्म असून त्याचा आकार हा कंदमुळ गोल कणासारखा आहे. कोरोनाची सर्वसामान्य लक्षणे म्हणजे ताप, थकवा, बोरडा खोकला व ज्या रुग्णांना सुरुवातीपासूनच बाह्य आजार असतिल अशा व्यक्तींना वेदना, अनुनासिक रक्तसंचय वाहनारे नाक घसा खवखवणे किंवा अतिसार होऊ शकतो. संक्रमण झालेल्या व्यक्तीला साधारणतः दोन ते चौदा दिवसात त्याचे लक्षणे दिसतात. हा आजार संसर्गजन्य आहे. एका व्यक्तीच्या संपर्कातून दुसऱ्याला होत असतो. यामध्ये उच्च रक्तदाब, धमा, बचोवृद्ध व्यक्ती, हृदयरोग आणि मधुमेह इ. मूलभूत आजार असलेल्या व्यक्ती हे नवीन आचारी पडू शकतात. त्यामुळे वार्तील कर्तो लक्षणे दिसतात. तो धरी लपून बसतो. अधिक आजार बळावल्यानंतर तो दवाखान्यात औषधोपचारकरीता जातो. रोगवर्त पेळ निघून गेलेली असते. कोरोनाचा प्रादुर्भाव बाधित व्यक्तीच्या छातीमध्ये पसरलेल्या असतो. त्याला स्वसनाचे त्रास जाणवू लागतो. ऑक्सिजन लेवल कमी झालेली असते. पर्यायाने बाधित व्यक्ती वाढता, व त्याला मृत्यू समोर दिसू लागतो. पर्यायाने तो हिंमत सोडतो व मृत्यूला कवटाळतो आणि कोरोनाच्या दुसऱ्या लाटेमध्ये अशाप्रकारे चित्र समाचार दिसते.

'कोरोना' अल्पावधित चीन मधिल 'बुहान' या शहरात जन्म झाला मात्र सर्वत्र जगभरात त्याचा प्रसार झाला. कोरोना आजार हा एकाच नाण्याच्या दोन बाजू दर्शविणारा आहे त्यातील सकारात्मक बाजू ही पर्यावरणीय दृष्टीकोनातून चांगली आहे. उपघाताचे प्रमाण कमी झालेले आहे. ओझोनचा थराचा धोक कमी झालेला आहे. आणि नकारात्मक बाजू म्हणजेच आपले समाजजीवन संपूर्ण ढवळून निघाले आहे. त्यामुळे सनाजातील आर्थिक, सामाजिक, सांस्कृतिक, शैक्षणिक परिणाम फार गंभीर पणे झालेले आहेत. जानेवारी २०२० पूर्वीचा जग व जानेवारी २०२० नंतरचा जग असे विभाजन केल्यास जानेवारी २०२० नंतरचा जग हा भीती, अस्थिरता, चिंता असुरक्षितता व मृत्यू यांच्या छत्रछायेखाली दिसते. भीतीयुक्त वातावरण समाजात निर्माण झाले आहे. भारतातील कोरोनाच्या दुसऱ्या लाटेनंतर संपूर्ण जनजीवन ढवळून निघाले आहे. कोरोना बाधितांची संख्या झपाट्याने वाढली असून त्यामानाने वैद्यकीय सुविधा कमी पडत आहेत. कोरोनाबाधितांना दवाखाने, बेड्स, ऑक्सिजन, व्हेंटिलेटर, औषधोपचार व इंजेक्शनची (रेमडेसिवीर) कमतरता जाणवत होती. असून त्यामुळे अनेकांचे जीव गमवावे लागले आहे. या दुसऱ्या लाटेमध्ये ३० ते ६० घरातील सर्वाधिक बाधित झाले असून मृत्यूचे प्रमाण ही त्यांच्यात सर्वाधिक आहे.

कोरोनाचा सर्वाधिक प्रभाव पडला असेल तर तो असंघटित क्षेत्रातील कामगारांवर देशातील अर्थव्यवस्थेचा कणा समजला जाणारा असंघटित वर्ग या असंघटित कामगारांच्या भरोवशावर उत्पादन घेतले जाते. कारखान्यात काम करणारा,

१२. आदिवासी समाजावर कोरोनाचा (कोव्हीड-१९) पडलेला प्रभाव

श्री. खूशाल जीवन सातपुते

अध्यापक, मु. पो. लखमापूर कोरी ता. चामोशी जि. गडचिरोली.

प्रा. डॉ. रविंद्र वि. विखार

सहाय्यक प्राध्यापक, समाजशास्त्र विभाग प्रमुख, श्री. गोविंदराव मुनघाटे कला व विज्ञान महाविद्यालय, कुरुखेडा, जि. गडचिरोली.

सारांश

संपूर्ण जगभर धैमान घातलेल्या कोरोनाची चीनच्या हुबेई प्रांतातील वूहान शहरातून सर्वप्रथम प्रसारास सुरुवात झालेल्या या महामारीचा प्रभाव, परिणाम भारतासारख्या विशाल देशाच्या एका टोकावर असलेल्या अतिमागास भागापर्यंत म्हणजेच गडचिरोलीतील आदिवासी समुदायावर होईल असा कधी विचार सुद्धा सामान्य जनतेच्या मनात आला नसेल, व त्या कोरोना महामारीचा आदिवासींच्या सामाजिक, आर्थिक आरोग्यविषयक व शैक्षणिक बाबींवरील झालेला परिणाम या शोधनिबंधाच्या अनुशंगाने सदर करण्याचा प्रयत्न केला गेला आहे.

प्रस्तावना

१८व्या शतकात सर्वप्रथम युरोपातून सुरु झालेल्या औद्योगिक क्रांतीने संपूर्ण मानवी जीवनाच्या सर्व क्षेत्रात आमुलाग्र बदल घडवून आणला. सृष्टीतील सगळ्यात बुद्धिमान प्राणी मानव या भूतलावर जन्माला आल्यापासून तो प्रगती व विकासाच्या प्रक्रियेत गतिमान झाल्यानंतर तो कधीच थांबला नाही. मानवाने आपल्या बुद्धीच्या जोरावर व विज्ञानाच्या मदतीने जगापाट्याने प्रगती केली, शोध लावले, आपला विकास साधला. परंतु हाच मानव आज सध्या स्थितीत म्हणजेच एकविसाव्या शतकाच्या दुसऱ्या दशकात म्हणजेच मागील एक वर्षापासून थांबलेला दिसतो. सध्या संपूर्ण जग एका अभूतपूर्व अशा विषाणूचा सामना करत आहे. ज्याने संपूर्ण जग, मानवी जीवन व्यापून टाकले आहे. तो विषाणू म्हणजे "कोरोना" किंवा कोव्हीड-19 (Covid -19) आहे. जागतिक आरोग्य संघटनेने (WHO) कोरोना ही महामारी आहे, हा संसर्गजन्य साथीचा आजार आहे असे म्हटले आहे. कोरोना हा साथीचा आजार हा केवळ एका देशापुरता किंवा एका खंडापुरता मर्यादित न राहता संपूर्ण जग कवेत घेतले. कोरोनाचा प्रसार संपूर्ण जगभर म्हणजेच भारतासह १८० पेक्षा अधिक देशांमध्ये झाल्याचे दिसून येते. भारतात सर्वप्रथम कोरोनाचा पहिला रुग्ण सर्वप्रथम केरळमध्ये ३० जानेवारी २०२० मध्ये आढळला.

चीनच्या चीनच्या हुबेई प्रांतातील 'वूहान' शहरातून सर्वप्रथम प्रसारास सुरुवात झालेल्या या विषाणूजन्य महामारीचा प्रभाव, परिणाम भारतासारख्या विशाल देशाच्या एका टोकावर असलेल्या

12. Dr. R. V. Vikhar

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श्री. सचिन पंढरी खेडकर

संशोधक विद्यार्थी.

डॉ. रविंद्र वि. विष्टार

समाजशास्त्र विभाग प्रमुख, श्री. गोविंदराव मुनपाटे महाविद्यालय, कुरखेडा जि. गडचिरोली,

सारांश

समाजशास्त्र आणि संबंधित क्षेत्रात रोजगार संधी आणि नोकरी उपलब्ध आहेत हे पटवून देण्याचे कार्य या संशोधनातून करण्यात आले आहे.

सूचनक शब्द: समाजशास्त्र, रोजगार क्षेत्र, नोकरी इ.

प्रस्तावना

समाजशास्त्राची उपयुक्तता दिवसेंदिवस वाढत आहे. आधुनिक काळातील गतिमान समाजवाचे समाजशास्त्रीय ज्ञान मिळवण्यासाठी या शास्त्राची नितांत गरज आहे. बदलत्या समाजातील व्यवसायांचे स्वरूपही सतत बदलत आहे बदलता समाज, बदलत्या गरजा आणि व्यवसायाचे बदलते स्वरूप या सर्वांचा ताळमेळ समाजशास्त्रीय ज्ञान घालू शकते. या दृष्टिकोनामुळे समाजशास्त्राचे महत्त्व वाढत आहे. समाजशास्त्र हा फक्त बंद खोलीत शिकवण्याचा विषय नाही तर अनेक क्षेत्रांत याची उपयुक्तता शिध्द झाली आहे य वाढतच आहे. उदा. उद्योगधंदे, सामाजिक सेवा, समाजकार्य, कायदा, स्पर्धा परीक्षा, मार्केटिंग, जनसंपर्क, पत्रकारिता, प्रसारण कौशल्य विकास, संपर्क क्षेत्र, विंगर शासकीय संघटना, कामगार कल्याण, सामाजिक सुरक्षा, विमा क्षेत्र, पुनर्वसन, सामाजिक कल्याण, ग्रामीण विकास, पर्यटन, कुटूंब कल्याण, जनगणना प्रकिया, योजना आणि नियोजन, सार्वजनिक आरोग्य, सामाजिक संशोधन, सामाजिक समुपदेशन, पोलिस खाते, आदिवासी कल्याण, सर्वसमावेशक शिक्षण, सुधारणात्मक प्रशासन, उपभोक्ता संशोधन इत्यादी.

ई-सर्वेक्षणचं का ?

अद्यावत स्थितीत कोरोनाचे संकट एवढे वाढत आहे की, फिक्त सर्वेक्षण करणे शक्य नाही. परंतु संगणक (इंटरनेट) यासरख्या प्रभावी माध्यमाच्या आधारे त्याचा अभ्यास करणे शक्य आहे म्हणून सदर संशोधनाचा

ई-सर्वेक्षणचा वापर करण्यात आला.

संशोधनाची गरज

आज अद्यावत विद्यार्थी हे विज्ञान शाखेकडे गळत्या दिसत आहे. कारण कुलेतरी त्यांना कल शाखेतील समाजशास्त्र विषयातही करीअर करता येते या समुपदेशनाची कमतरता आहे त्या अनुषंगाने समाजशास्त्र हा विषय

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ADDICTEDNESS : SOCIAL PROBLEM IN INDIA

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Generally, when dependence of persons having physical or mental on wine, narcotics, net or mobile, increased that condition is called 'addictedness'. Specially, addicted persons have intensive desired of these things. The dependence of them on these things grows gradually. Addicted person can goes to any level to get these things. If these things did not get then the emotions like anger, cruelty and mental anxiety goes beyond level to these persons. Such dependence of physical & mental effect dangerous result on these persons and the society.

Drinking of wine is improper conduct determined by social persons. Taking into considerations the dangerous results of alcoholic drinking. 'alcoholic drinking' is determined a social problems. Drinking of wine is called as conduct to divert the society. The Merton has called this conduct as 'wrong moving'. The problem of drinking of wine is of universal aspect. The habit to take narcotics have found in all the society. In western countries the quantity of these habits is mostly. Today, in developing countries like India, is facing of various social problem, of these the problem of drinking of wine or alcoholics is main problem. Initially, from the Vedic period taking of narcotics or wine by taking 'Somras' is found.

Addictedness is of various of kinds. Out of these addictedness of intoxicated thing is of dangerous.

Intoxicated things means such all things and medicines that is by taking these things persons have feel the experience of intoxicated state, instigation, happiness, delighted and energy. After any persons take these things the strong desire to take any time is created in the mind of person.

According to the report of National Sample Survey, Department of Govt. of India 2 Crores boys having in the age group of 10-14 years have gone to the clutches of bad habits of eating tobacco, it is estimated. As well as it is such called, everyday approximated 5500 people is included newly in the group of people eating tobacco. In result, every year no. of 20 lac. is added in this quantity.

Dr. Durfy made the definition to explain the sociological meaning of addictedness. He said "addictedness is such habit that the person is troubled by physical problems. The happiness in family lapsed and from this various social problems is created.

By eating of brown sugar, wine, charas, tobacco, ghutka, cocaine etc. things, body health is lost even though many problems are created in case of family, friends, place of work and law. At many times addictedness of wine, tobacco and other authorized medicines and unauthorized chemical things, it is effected bad result on the physical and mental health of addicted persons as well as related to these persons. It is created the possibility to happen the work against the society by this persons are it can be gone to the clutches of much despair.

Drinking of wine is process. Hurton and Lesly both have said that bound drinking, control drinking, uncontrolled drinking these 3 conditions where as Bogen has told how to

14. Dr. S. N. Niwadange

In the case of organic chemistry, oxidizing reagents play an important role as far as synthetic chemistry is a concern. In organic synthetic chemistry, oxidation are mainly divided into four sections. The first section involved the list of oxidizing methods. The selection of good reagent combinations to get the desired changes is involved in the second section. The third and fourth sections are brief in comparison to the first and second sections but show a number of key methods in the respective fields.



Dr. V. G. Kalalawe completed his post-graduation from S.R.T.M. University Nanded. After M.Sc. in Organic Chemistry, he joined N.E.S. Science College Nanded for the Ph.D. program under the guidance of Dr. D. R. Munde. He also qualified for SET, NET, and GATE exams. Currently, he is working as an Asst. Prof. at Yogeshwari Mahavidyalaya, Ambajogai.

Virbhadra G. Kalalawe
Sandip R. Kale
Sandip N. Niwadange

Oxidizing reagents in Organic Synthesis



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Unveiling the Boundaries of Gender Issues



Dr. Zeenat N. Kashmiri
Dr. Sujata A. Mankar
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Chapter-20

Gender Sensitization and Psychology

Ms. Trupta D. Wakde

Department of Microbiology

Shri Govindrao Mungate Arts and Science College, Kurkheda, Maharashtra

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Introduction

Gender inequality is long term problem in our society and female are discriminated in many ways in the social context although they have equal rights legally. This is 21st century where women's on one hand are occupying top most position i.e. some are CEO of multinational companies, political leaders, topnotch position in show business, scientist etc. but on the other hand they are being even teasing, raped, and harassed. Such a paradox in 21st century compel us to think more seriously on the topic gender sensitization

First and foremost what is Gender?

Gender encompasses socially constructed and culturally based roles of men and women with a view to understand how unequal power relations between them are shaped and operated. Gender and its accompanying power relations are built in all institutions of society are it family, educational institutions, work places, beliefs, norms, etc. Gender relations do not operate in a social vacuum but are the products of the ways in which institutions are organized and reconstituted.

Difference between sex and gender

Sex are the biological traits that societies use to assign people into the category of either male or female, whether it be through a focus on chromosomes, genitalia or some other physical ascription. When people talk about the differences between men and women they are often drawing on sex on rigid ideas of biology rather than gender, which is an understanding of how society shapes our understanding of those biological categories.

Gender is more fluid it may or may not depend upon biological traits. More specifically, it is a concept that describes how societies determine and manage sex categories; the cultural meanings attached to men and women's roles; and how individuals understand their identities

16. Dr. D. S. Bansod

Taphozous kachhensis is a seasonally monotocous nonhibernating and largest Indian Emballonurid wild caught bat. The primary function of the thyroid gland is to control metabolic activities and found to be an important modulator of reproductive function in bat. Thyroid hormones were shown to be required for a normal transition from beginning to end of the reproduction. The weight of gland, T_3 , T_4 and TSH concentration is high when spermatogenesis is at peak activity during the sexually active period and low when testes in quiescent. One of the major outcomes of the present findings is that, the follicular and parafollicular cells of thyroid gland of *Taphozous kachhensis* as in other species of bats and mammals indicate that the thyroid hormones are directly or indirectly take part in the reproductive processes by metabolic effect. Hypo or hyper function of thyroid gland is known to suppresses the reproductive activity.



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Dr. Deepak S. Bansod works as Assistant Professor and Head, Department of Zoology at Shri Govindrao Munghate Arts and Science College, Kurkheda Maharashtra, India. He is a recognized research supervisor in Zoology at Faculty of Science and Technology. He has published several research papers in reputed National and International Journals.

Light and Ultrastructure of Thyroid Gland of Male Bat

Taphozous kachhensis (Dobson)



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17. Mrs. R. B. Shambharkar

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Challenges For Teachers And Students of Remote Areas To Enable Ict Based Teaching And Learning Methods In Lockdown

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Science College, Kurkheda

Abstract:

In this COVID-19 lockdown education must not be bounded by any barrier to reach toward the students of every corner of the world. To complete the same different educational institute put their efforts to adopt and enable ICT based teaching and learning methodology. In India also various Teaching and learning institute organized different training sessions and faculty development programme for the teachers to orient them with ICT based teaching. In this crisis teachers and students of Remote areas like Gadchiroli are not able to take full advantage of ICT based learning due to different reasons. The focus of this study is to record the data about the challenges faced by students as well as teachers to enable ICT Based Teaching learning methods.

Key Words: COVID-19, Education, Teaching and Learning, ICT tools

Introduction:

Good education is the foundation of a better future because it helps to develop overall personality of a person and also improve the status of mind and family. The development and strength of every country is dependent on the progress of the health and education system in that country. Education plays a central role for the betterment of the human race for its own survival and existence. Nowadays the education system of the whole world evolves in such a way that there are no barriers among people sitting in two different corners of the earth to learn from each other. Technological evolution in teaching and learning methods is the greatest achievement and innovation in the 21st century. Due to ICT's importance in society as well as in the future of education, identifying the possible challenges to integrating these technologies in schools and College would be an important step in improving the quality of teaching and learning (Simin Ghavifekr *et al.* 2016). All these information and communication tools are definitely useful not only for enhancing the understanding of concept based teaching but also to visualize the exact structure of both living and nonliving matter. The use of ICT will not only enhance learning environments but also prepare next generation for future lives and careers (Wheeler, 2001).

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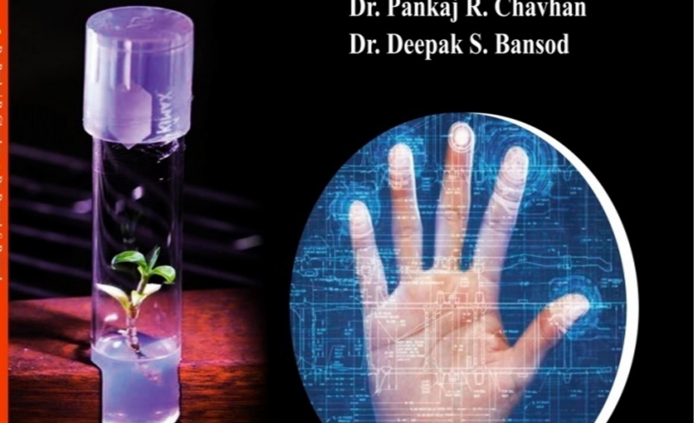
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**Dr. Pankaj R. Chavhan
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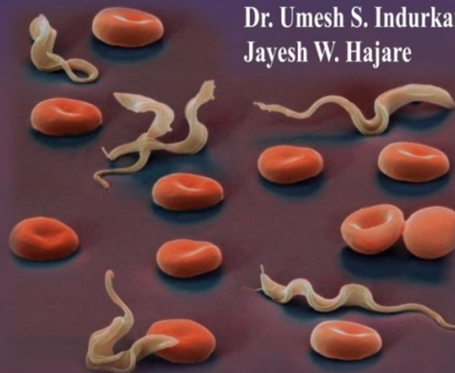
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(Core Paper XI)



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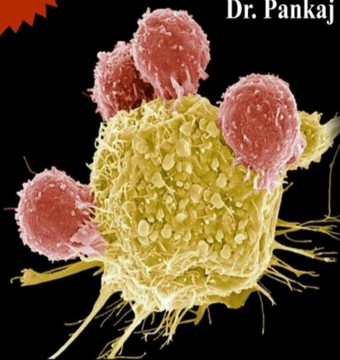
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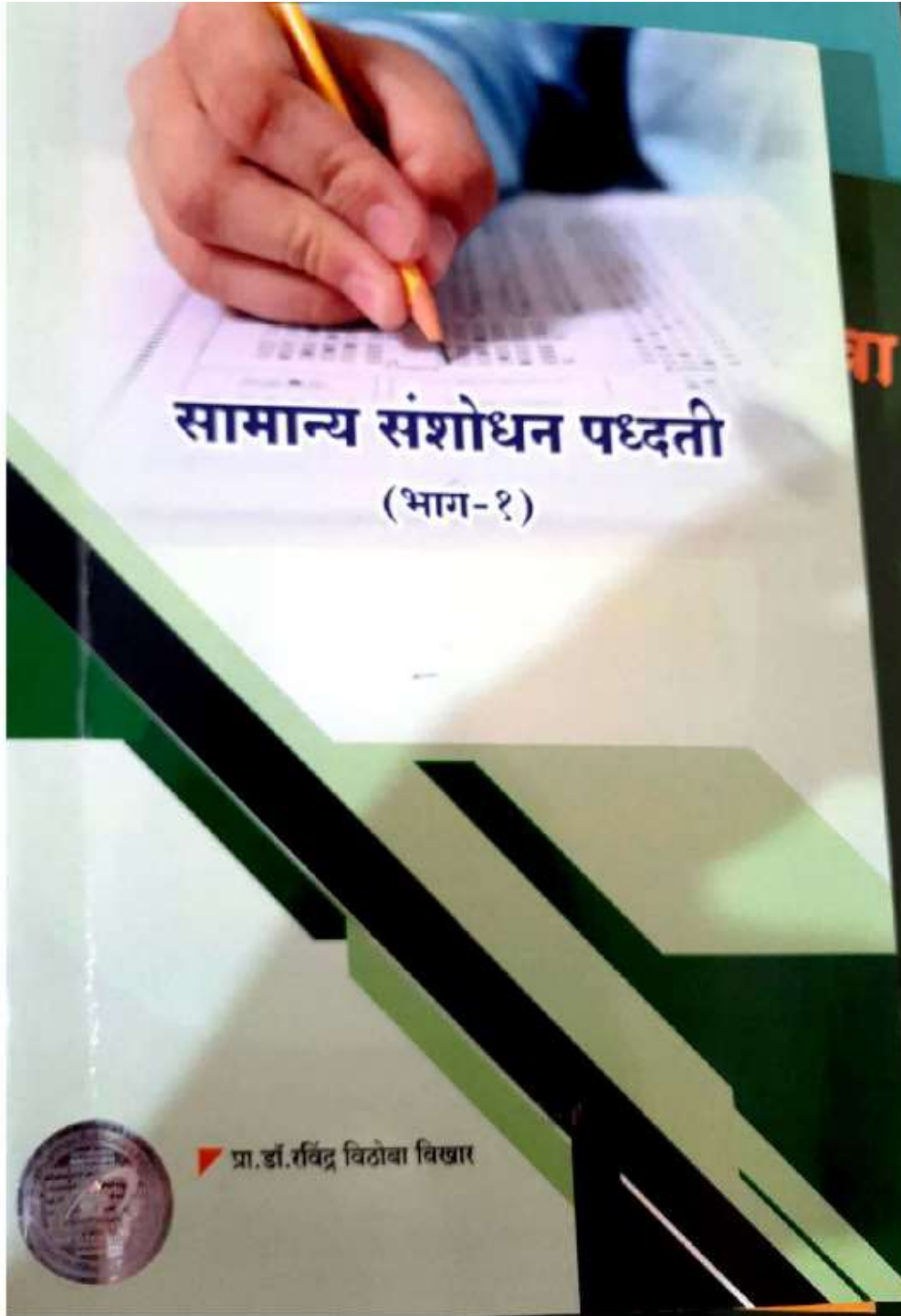
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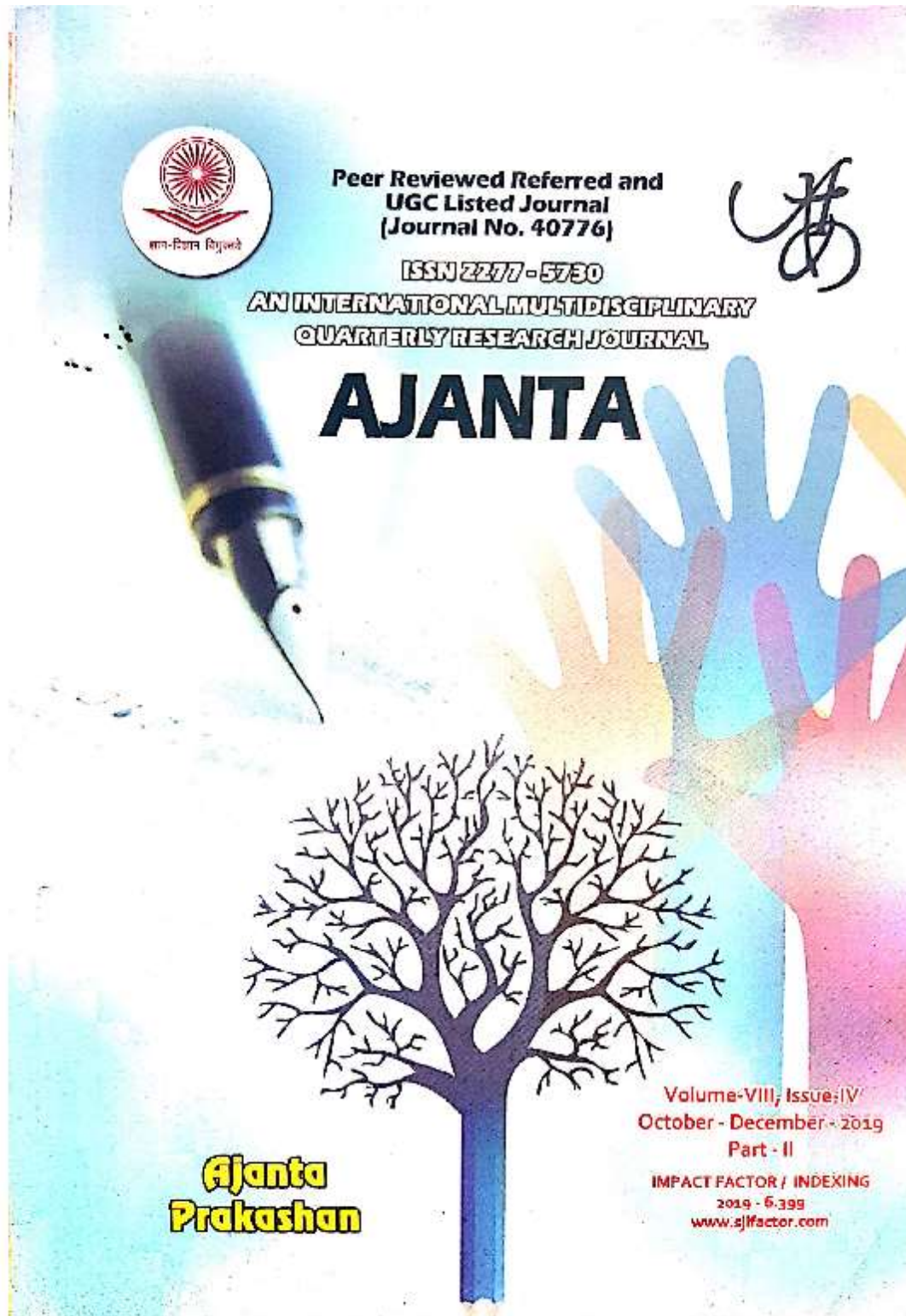
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नाटक वा काव्य प्रकारांच्या निर्माणाची आख्यविला परापूर्वी यांनी 'नाट्यशास्त्र' या ग्रंथात सांगितली आहे. त्यादुसार परंपरेवराने निर्मिलेला विरवाची याद झाडी. सोख्य आणि आनंदाची लयालूद सुरु झाली तरीही इव्वाट्टे देव द्रष्टेवकडे गेले आणि असलेल्या परिस्थितीतही अधिक चांगले कल्पनाची दिवतो केले. द्रष्टेवकाने आश्वासन दिले व त्यांच्या परिपुर्तीसाठी पारवा वेद निर्माण केला. त्यासाठी ऋग्वेदातून 'कथा', सामवेदातून 'गीत', यजुर्वेदातून 'आशिनय' आणि अथर्ववेदातून 'स्त' हेऊन हा नाट्यवेद म्हणजेच नाटक तयार झाले. तपून नाटकाला 'पंदावेद' असे म्हणतात. प्राचीन ऋ. गीमूर्तीने तर नाटकाला 'यत' असे म्हटले आहे. अशा या नाट्यप्रकारचा विकास जगतोळ विविध भागात विवधाने झाला. भारतीय रंगभूमी, त्यात मराठी रंगभूमीचे स्वतंत्र दालन समृद्ध झाले. आचार्य प्र. जे. अत्रे महारा झाडी वी सि इवे सांगतांना महारा दू हा नाट्यवेद आहे असे सांगत. महारा इने आणल्या अंतरागातील कलत्मक गुणाला तुकू यात दिल्या आणि मराठीत हे ट नाट्यप्रकारचा निर्माण झाले. महारा तुच्या म्कात भिजलेल्या ह्य कलेचा जन्म सांगली वेधे १८४३ साली 'सैता खंयंवर' या वि पुढता गावे चाव्य नाटकाच्या रूपाने झाले. तुडे इवळकलीकर नाटक मंडळाने याचा विकास केले. पौराणिक नाटक, फार्म, बुकीश नाटके, रंगीत नाटक अशी स्थित्यतरे अनुभवत मराठी रंगभूमी प्राल्प हेत राहिली. याच रंगभूमीचा एक अविभाज्य भाग गडचिरोली, चंद्रपूर, गंडारा आणि गंतिवा या झाडीप्रदेशात 'झाडीपट्टी रंगभूमी' या स्वतंत्र नावाने अस्तित्वात आला.

झाडीप्रदेशात ीतीच्या वेळापर्यंतानुसार विवाङ्गनाटक प्रांती नाटके वल्लवणे सुरु झेत असले तरी, रेज ीताइन घरी आल्यावर, रात्रीचे लेखन झाल्यावर दिवाच्या शांगगात किवा पातकर कोगते नाटक वसवामणे, कोण कोणती कामे करणार याची चर्चा जवळजवळ ह भिरव सुरु असते. एका गावात अनेक नाट्यमंडळे असल्यास त्यांच्यात नाटकच्या निवडानसून खीमातली भूमिका कोण करणार अशा वावतीत वडाओड होते. झाडीपट्टीत नाटक हा केवळ एक रज्जाचा वि ाग नरातो तर गावाच्या अस्तित्वा, समृद्धीचा आणिक्वीयंपन जावनशील्यन सि ष असतो. गडचिरोली जिल्हायातील डिसेरा येथील चिठ्ठवार व नाट्य कलावंत स्व, धांजय नाकाडे यांचे 'झाडीपट्टी रंगभूमी' वर सर्वप्रथम एक चिकित्क पुस्तक लिहीले. परतपूर्वीच्या नाट्यशास्त्रासामून तर लोकनाटयातील संगीत-रंगभूमीचावत अलगत तैलिक समीक्षण आडवा या ग्रंथत घेतला आहे. नाटक हा झाडीपट्टीतील तनय जन्तेच्या औत्सुभवाचा, आनंदाचा दि ष आहे. नाटक हा लोकौत्तव रतिकजनांच्या रंगमोमात भरलेला आहे. ीतीचा हांगम मंगाल की शंडीला सुरुवात होते. 'करपट, भंडई, जग-यावन आणि दिवाळी अशा उत्सवांच्या निगोत्ताने ही रंगभूमी जिवंत आहे. नाटकांचा लोकौत्तव केवळ ननोरजनाचा भाग नसून ती पारंपारिक अतिरुची संपन जांमनशील , नाट्यकलेची समयाधवा आणि सांस्कृतिक कलावि काराची प्रक्रिया आहे.

8. Dr. N.T.Arekar



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९. विदर्भातील निवडक लोकगीते : एक आकलन

डॉ. नरेंद्र तु. आरेकर

सहयोगी प्राध्यापक, मराठी श्री. गोविंदराव मुनगाटे कला व विज्ञान महा. कुखेडा, जि. गडचिरोली.

विदर्भाला फार प्राचीन काळपासून वैशिष्ट्यपूर्ण स्थान प्राप्त झालेले आहे. वैदिक काळापासून अनेक प्रकारे विदर्भाचा संदर्भ काव्ययुक्त सापडतो. भगवान कृष्णाच्या काळातदेखील जेव्हा संघर्षाचा शीलकामध्ये गेली त्यावेळी ती विदर्भातून गेली असल्याचे उल्लेख सापडतात. यांचे काळात देखील आणि नंतरच्या हर्षवर्धनापूर्वी वैदर्भीय संस्कृतीचे अवशेष असल्याचे उल्लेख शिलालेखांमधून आणि भूर्जपत्रिकांच्या पट्टिकांमधून आढळतात. भारताच्या इतिहासात अनेक भूगोलामध्ये महाराष्ट्राचं नाव आलेलं नाही, विदर्भाचं नाव आलेलं आहे. विदर्भ हा आदिमहाराष्ट्राचा भाग आहे. इसवी सनाच्या सहाव्या शतकापूर्वी भारतात ज्या महाजनपदांची निर्मिती झाली त्यातील विदर्भ हे एक जनपद असल्याची माहिती इतिहासात मिळते. ताम्र, कांस्य आणि लोहयुगीन संस्कृतीच्या अवशेषांनी विदर्भभूमी नटलेली होती. विदर्भाची येथे परंपरा ज्ञान, विज्ञान, कला, संस्कृती, स्थावत्य, राजकारणात निरंतरपणे अभिमानाने विरचित झाली तरी विदर्भातील जनतेमध्ये अन्यायाची शक्ती काहीसं लागलेली निदर्शनात येते. मान्यदेशात असताना विदर्भावर लोपाय अन्याय आणि आत महाराष्ट्रात आल्यावर आश्ल्याय पागलाकडून लोपाय अन्याय हा स्वतंत्र अभ्यासाचा विषय आहे.

विदर्भाचा माणसाने कला प्रांतातील वेगळेपण हे त्याच्या जगण्यातल्या वेगळेपणासारखंच आहे. विदर्भाच्या सांस्कृतिक प्राचीनतामध्ये नजर टाकताना अनेक लक्षणीय बाबी समोर येतात. रामायण-महाभारतात पौराणिक महाकाव्यांमध्ये वर्णिलेले रामदेव-कौटिल्यपुरस्कारांची तीर्थभळे, जैनांचे आदरस्थान वत्सगुल म्हणजे वासीम, महाभारत पंथाने शिवपूर, गेहकर, सिंधुदेवराज, वीष्णाचे देरपास्थान असलेली मन्सर, पंचनीसारी इतिहासाची पवित्रता, विदर्भाची काली म्हणून प्रसिद्ध असलेली गडचिरोली जिल्ह्यातील माकांडा येथील लेणी ही सर्व उर्ध्व असलेली सांस्कृतिक श्रद्धास्थाने विदर्भाच्या शिरपेयात अभिमानाने विरचित आहेत. विदर्भाचा संगडेपणा सहजासहजी कुणाला गेलला नाही. विदर्भाच्या भन्नाट जीवनातील असणारी धम त्याला रोजच्या जगण्यात वारंवार लागण्याच्या संघर्षातून व्यक्त झाली आहे. नावसाच्या अनियमित लहरीमुळे वाटवाळा आलेले कोरडवाहू जीवन विदर्भाच्या पाचवीलाच पुजलेले असल्यामुळे त्याच्या जिपेला पिचापुरी निरनीची रंग येते. "आम्ही विदर्भाची माणसं अडलेल्याला अर्थ शेतार सोडून देतो अन् वडलेल्याचं अखळं शेतार फाडून नेतो." असे सुधाकर भायभने म्हणतात. विदर्भाच्या जगण्यातला इस्तेमाल त्याच्या कलात्मक आविष्कारातही प्रकटला आहे.

विदर्भातील लोककलेत विदर्भाच्या लोकजीवनाची प्रतिबिंबे उमटलेली दिसतात. कुठलीही लोककला ही त्या त्या लोकसंस्कृतीची प्रचारक असते. या लोककला म्हणजे समाजजीवनाच्या पाठशाळा असतात. दैनंदिन जिवितातल्या पंडामंड, वादसंवाद, भंडणतरे, लोकम्हणी, वाक्यचर, वाक्कीरीती आणि मणिसंवादी

9. Dr. R. V. Vikhar

Studies in Indian Place Names
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महाविद्यालयीन गुणवत्ता विकासात अभ्यासपुरक उपक्रमांची भूमिका

प्रा.डॉ.रविंद्र वि. विखार

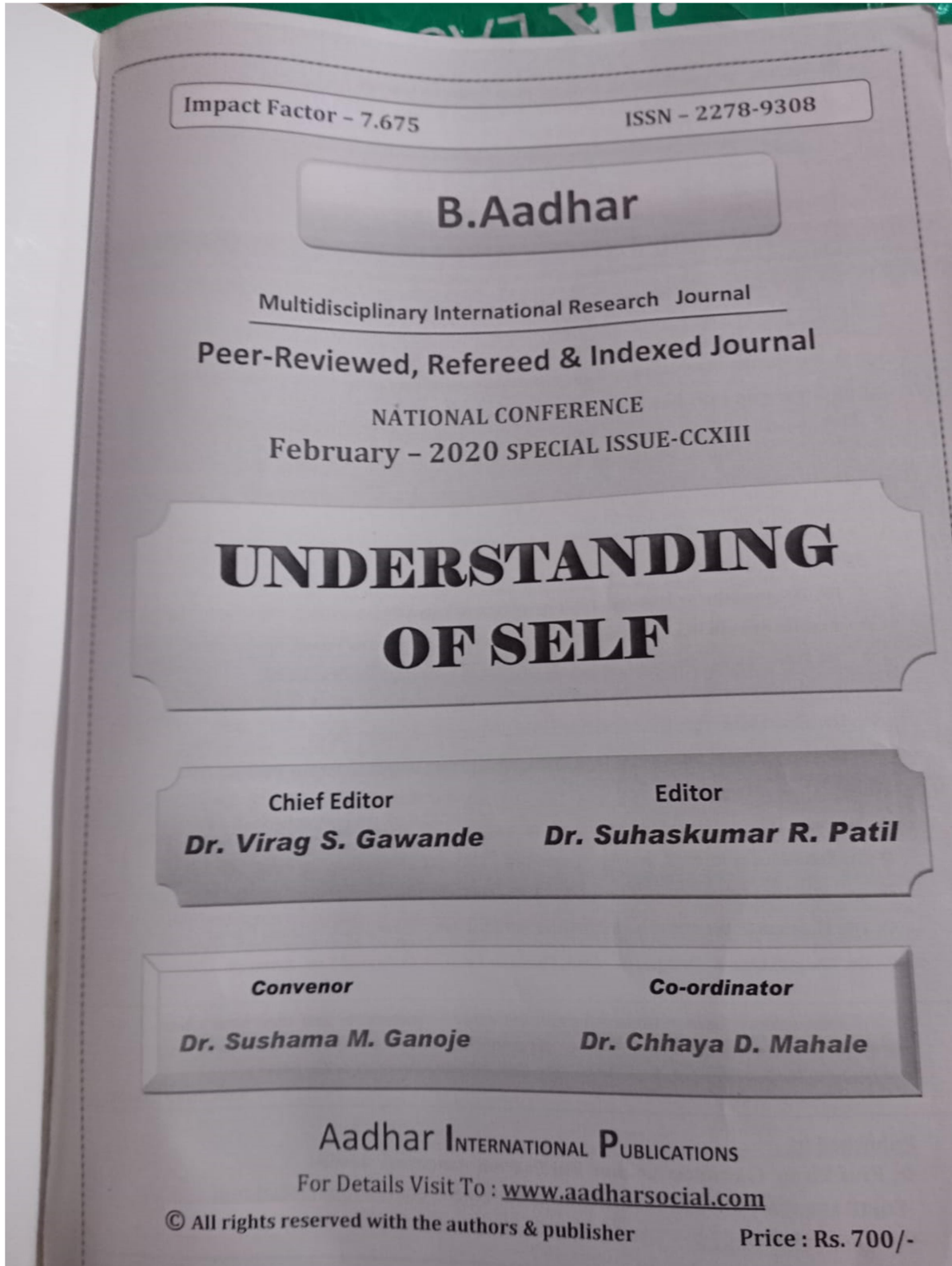
श्री.गोविंदराव मुनघाटे कला व विज्ञान महाविद्यालय कुरखेडा, जि. गडचिरोली

शिक्षणस्तर तो पूर्वप्राथमिक ते उच्च शिक्षण यांपैकी कोणत्याही प्रकारचा असो गुणवत्ता विकासाला अनन्यसाधारण असे महत्त्व असते.शाळेतील / महाविद्यालयातील प्रत्येक विद्यार्थ्यांमध्ये काहीतरी निश्चितपणे उत्तम उंची वाढण्याचे बीज असते.ते शोधून प्रत्येकाला त्याच्या त्याच्या गतीने व त्याच्या त्याच्या आवडीच्या प्रांतामध्ये वाढण्याची संधी देणे ही गुणवत्ता विकासाची गाथा आहे. 'काही किमान, काही समान, राखू उत्कृष्टाचे माना' ही वृत्ती ठेवून शालेय आणि सहशांलेय कार्यक्रमांमध्ये विद्यार्थ्यांना उपाययोजनासाठी, विविध संधी देणे हा गुणवत्ता विकासाचा पाया आहे आणि शाळेतील/महाविद्यालयातील सर्व शिक्षक/प्राध्यापक, सर्व विद्यार्थ्यांना सर्जनशीलतेच्या संधी उपलब्ध करून देणे आणि चाकोरीबाहेरील उपक्रमांचे संयोजन करून महाविद्यालयांमध्ये सतत गतिमान, चैतन्यमय सळसळणारे वातावरण निर्माण करणे हे गुणवत्ता विकासाचे उद्दिष्ट आहे.

शं.कृ. सोहोनी यांनी शैक्षणिक टिपकोशात अभ्यासपुरक कार्य या संकल्पनाचा अर्थ स्पष्ट करताना म्हणतात की,

"अभ्यासातील उणिवा नाहीशा करून, अनौपचारिकरीत्या व विशेषतः विद्यार्थ्यांच्या पुढाकाराने करावयाचे शाळेतील कार्यक्रम म्हणजे अभ्यासपुरक होय." पुस्तकबद्ध अभ्यासक्रम हा तास-दिवस-वर्ष यांत विभागलेला असतो. त्यामध्ये विद्यार्थ्यांचा सहभाग हा नैसर्गिक असण्यापेक्षा जरा सक्तीचाच असतो, तो औपचारिक असतो.परंतु विद्यार्थ्यांनी उत्स्फूर्तपणे करावयाचे कार्यक्रम असे याचे स्वरूप असते, त्यामुळे विद्यार्थ्यांच्या सुप्त गुणांना वाव मिळतो व शिक्षणविकास हा वेगळ्या पद्धतीने पण परिणामकारकरितीने होतो. म्हणून

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Sportsman's Spirit of Kho-Kho and Kabaddi Players

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Abstract :- The purpose of the study was to compare the sportsman's spirit level of Kho Kho and Kabaddi players. For this purpose researcher has taken Fifty (40) male players were selected from various clubs or mandals of Gadchiroli, who has at least participated in state level or inter collegiate level tournaments. Subjects were selected with purposive random sampling methods, 20 players were selected from kho-kho game and 20 players were selected from kabaddi game. The age of the subjects were ranged between 20 to 28 years. Subjects did not use any ergogenic aids or supplementations and also they were all free from any injuries during the collection of data. To measure the sportsmen's spirit level researcher has selected 'Sportsman-Spirit Test' which was constructed by L. N. Dubey. Statistical analysis was done on the basis of Mean for the comparison of sportsman's spirit level between Kho Kho and Kabaddi Players and 't' test was utilized in order to determine the significant difference. The Significance of Level was kept at 0.05 Level. Result shows that on the basis of mean there was difference found between the mean of Sportsman's Spirit level between Kho Kho and Kabaddi players of various clubs or mandals of Chandrapur. To see this differences is significant or not at 0.05 level of significance. Researcher further calculated 't' test & above table shows that there was significant difference was found between Kho Kho and Kabaddi Players as the calculated 't' value 2.766 is greater than the tabulated 't' value 2.024. It is conclude that on the basis of mean there was difference found between the mean of Sportsman's Spirit level between Kho Kho and Kabaddi players of various clubs or mandals of Chandrapur. To see this differences is significant or not, researcher further calculated 't' test and result shows that there was significant difference between Kho Kho and Kabaddi Players. Hence, the difference shows significant. It may be attributed that the player of Kho Kho game is less aggressive and extroversion as compared to Kabaddi players. As Kho Kho game is less contact game there is less chance of disobedience in the game hence it may be the reason that Kho Kho players shows high level of Sportsman Spirit as compared to Kabaddi Players.

Keyword: Sportsman's Spirit, Kho Kho players and Kabaddi Players.

Introduction :- Sportsmanship can be expressed as an enduring and relatively stable characteristic or disposition such that person vary in the manner they are generally expected to behave or act in each game and sports circumstances. In general, sportsmanship can be said to the qualities or characteristics such as, fairness, self-control, courage, and determination, and has been related with an interpersonal concepts of treating others and being treated fairly, or keeping up self-control in any situation, managing others, and respect for authorities, rules and regulations, opponents team as well as his own team members, coaches, officials even fans and spectators. Sportsmanship is also looked as being the way of an individual who reacts towards a sport/game/player. A "loser" can be referred to an individual, player or team who does not take defeat well, while a "good sport" means being a "good winner" as well as being a "good loser" (someone who shows courteousness towards another in a sports as well as in games).

Kho-Kho and Kabaddi game is the most popular traditional sports in India. The origin of the game which most likely to be said as originated in Maharashtra but it is difficult to trace, but most historians consider. Kho-Kho and Kabaddi game which involved the skill of touching, running, raiding, catching, etc. Kho-Kho and Kabaddi game is also like any other traditional Indian game is inexpensive, simple and highly enjoyable. However, Kho-Kho and Kabaddi players need to be physically fit, agile, possess quick reflexes, agile movement and alertness to successfully compete. In spite of the physical qualities Kho-Kho and Kabaddi game also develops team or individuals spirit, a sense of solidarity, a highly sense of discipline and obedience.

Every individual posse's different sportsman spirit level, at different level i.e. international, national, varsity, etc. likewise every individual may posse's different sportsman's spirit according to their different playing position's of a particular game or different games. To see whether there is significant

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प्रा. डॉ. दशरथ धर्माजी आदे

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सारांश (Abstract)

महात्मा जोतीराव फुले यांनी शूद्रातिशूद्र आणि स्त्रियांना सर्वांगीण गुलामीतून मुक्ततेचे जोरकस प्रयत्न केले. भारतीय हिंदू समाज व्यवस्थेत स्त्रियांच्या शोषणाला व अन्याय-अत्याचाराला पाराघर नव्हता. विविध स्त्री समस्यांचे मुळ हे बालविवाह प्रथेत होते. विषमतेला जन्म देणाऱ्या व तिचा परिपोष करणाऱ्या मनुवादी सनातनी व्यवस्थेतून स्त्रियांची सुटका केल्याशिवाय स्त्रीला खरे स्वातंत्र्य मिळणार नाही अशी त्यांची पक्की धारणा होती. यादृष्टीने स्त्रीमुक्तीसाठी जोतीरावांनी मांडलेले विचार व केलेली प्रत्यक्ष कृती लक्षात घेतल्याशिवाय त्यांच्या सामाजिक क्रांतीवादाचा आशय समजून घेणे शक्य नाही.¹

बिज संज्ञा (Key words) :- स्त्रीमुक्ती, सनातनी, शूद्रातिशूद्र, बालविवाह, बाल-जरठ विवाह, सती, बालविधवा, केशवपन, पुनर्विवाह.

प्रस्तावना

महात्मा फुले शूद्रातिशूद्र समजल्या जाणाऱ्या स्त्रीवर्गाच्या सर्वांगीण उन्नतीकरीता स्त्रियांच्या विविध समस्या सोडविण्याचा कसोशीने प्रयत्न केला. त्याकरीता वेळोवेळी स्त्री स्वातंत्र्याचा कैवार घेत पाठराखण केली आहे.

स्त्री शिक्षणाचे कार्य करीत असतांनाच जोतीरावांचे लक्ष समाज व्यवस्थेतील अनेक गंभीर स्त्री प्रश्नांकडेही लागले होते. यापैकी एक महत्त्वपूर्ण प्रश्न म्हणजे बालविवाह. यातूनच पुढे बाल-जरठ विवाह, सती, केशवपन, बालविधवा व विधवा पुनर्विवाह या समस्या निर्माण झाल्या. म्हणूनच त्यांनी या संबधाने आपले विचार मांडण्या बरोबरच प्रत्यक्ष कार्यही सुरु केले.

बालविवाह

प्राचीन काळापासून जोतीरावांच्या कार्यकाळापर्यंत आणि पुढेही अव्याहतपणे सुरु राहिलेली व विशेषतः हिंदू धर्म, रुढी, परंपरा व रितीरिवाजानुसार समाजव्यवस्थेने मान्य केलेली प्रथा म्हणजे बाल विवाहाची होय.

अगदी अजाणत्या आणि खेळण्या-बागडण्याच्या वयात मुला-मुलींचे विवाह करण्यांत येत असत. यालाच बालविवाह असे म्हटल्या जाई. या वयात अशा मुला-मुलींना लग्न म्हणजे काय? कुटूंब, संसार आणि पती-पत्नी म्हणजे काय? हे काहीच कळत नसे. अगदी दोन-तीन वर्षांपासून नऊ-दहा वर्षांच्या तर कधीकधी जन्मतःच किंवा जन्म आधिच येणाऱ्या अपत्याचे आई-वडील किंवा नातेवाईक त्यांचे लग्न ठरवून मोकळे होत आणि ठरल्यानुसार बालपणीच विवाह करीत असत. जोतीरावांनी यातील भयानकता पाहून प्रखर विरोध केला. एवढेच नाही तर बालविवाह बंद होण्याकरीता कायदा व्हावा अशी मागणीही केली.²

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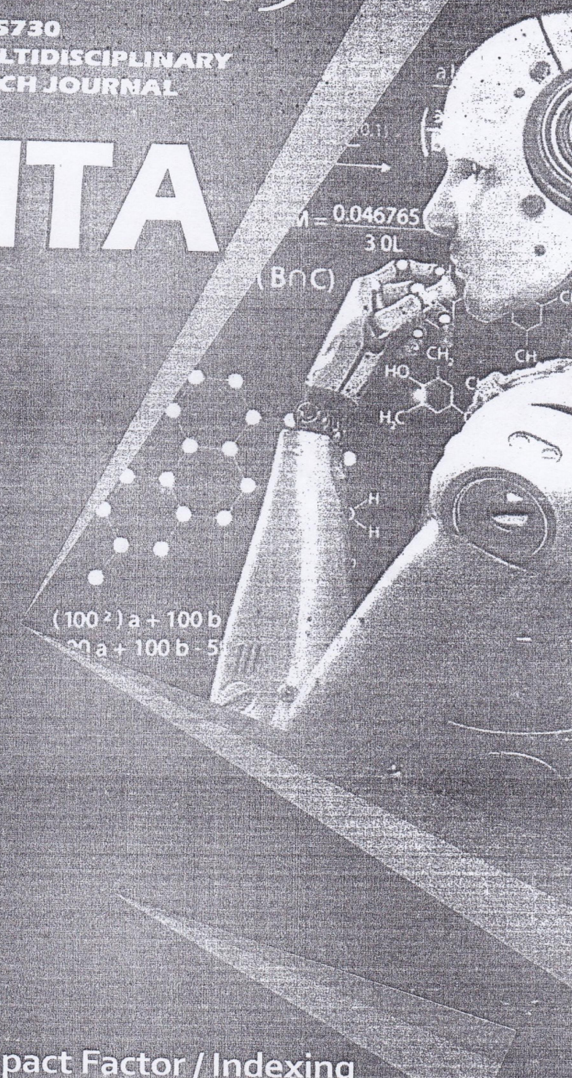
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सारांश (Abstract)

सामाजिक क्रांतीचे अग्रगण्य महात्मा जोतीराव फुले आणि भारतरत्न डॉ. बाबासाहेब आंबेडकर या गुरु-शिष्यांनी शुद्रातिशूद्र बहुजनांच्या शोकडो वर्षाच्या गुलामीच्या श्रृंखला तोडून भारतीय समाजाव्यवस्थेत आमूलाग्र परिवर्तन करण्याच्या दृष्टीने महत्वपूर्ण व क्रांतीकारक कार्य केले. डॉ. बाबासाहेब आंबेडकरांनी आपले गुरु महात्मा फुले यांच्या विचार कार्यापासून प्रेरणा घेत भारतातील शुद्रातिशूद्र, दिनदलित, शेतकरी, कामगार आणि स्त्रियांची सनातन्यांच्या गुलामीतून सुटका करण्याचे अद्वितीय कार्य केले. महात्मा फुले यांनी शेती आणि शेतकरी यांच्या सामाजिक व आर्थिक प्रगतीकरीता विचार-कार्यरूपी जे रोपटे लावले, त्याचे वटवृक्षात रूपांतर करण्याचे कार्य डॉ. बाबासाहेब आंबेडकर यांनी केले. "दुनियामें वही शख्स है ताजीम के काबिल, जिस शख्स ने हालत का मुँह मोड़ दिया है।" असे व्यक्तीमत्त्व म्हणजे भारतरत्न डॉ. बाबासाहेब आंबेडकर.

विज संज्ञा (Key words) :- महात्मा फुले, डॉ. आंबेडकर, शेती, शेतकरी, दयनीय, खोती, सामुहिक शेती, जलसिंचन, सावकारी, दुःख मुक्ती.

प्रस्तावना

महात्मा फुले यांनी आपल्या 'शेतकऱ्यांचा असूड, ब्राम्हण्यांचे कसब आणि गुलामगिरी' या ग्रथातून शेतकऱ्यांच्या शोषणाचे व दारिद्र्याचे विस्तृत असे वर्णन उदाहरणांसह केलेले आहे. महात्मा जोतीराव फुलेंचे शेती आणि शेतकरी यांच्या संबंधाने कार्य करताना अपूर्ण राहिलेले कार्य पुढील काळात डॉ. बाबासाहेबांनी पूर्णत्वास नेण्याचे प्रामाणिक व जोरकस प्रयत्न केले. डॉ. आंबेडकरांची शेती आणि शेतकरी यांच्या विषयीच्या विचारकार्याची दृष्टी अतिशय व्यापक स्वरूपाची होती. या संबंधाने त्यांचा सखोल अभ्यास होता. त्यांनी शेती आणि शेतकरी व शेतमजूर यांच्याकरीता फार मोठा संघर्षही केला. देशाच्या आणि शेतकऱ्यांच्या पारतंत्र्यात ते शेतकऱ्यांच्या न्याय हक्कांसाठी इंग्रजां बरोबर लढले, तसेच स्वातंत्र्यानंतरही त्यांचा हा संघर्ष सुरुच होता.

महामानवांचे विचारकार्य हे कालातीत असतात. भविष्यकालीन परिस्थितीचे वेध घेण्याची दृष्टी ब युक्तीमत्ता असते. त्यामुळेच प्रत्येक कालखंडात ते थोड्याफार फरकाने लागू होतांना दिसतात. नव्वेचे तर त्यांची जाणिव अधिक तिव्रतेने होऊ लागते. डॉ. आंबेडकरांचे शेती आणि शेतकरी यांच्या विषयीचे विचार आणि कार्य आजच्या परिस्थितीतही मोठय प्रमाणात लागू होतात. यातून त्यांचा द्रष्टेपणा दिसून येतो.

डॉ. बाबासाहेब आंबेडकरांचे शेती आणि शेतकरी विषयक विचारकार्य

डॉ. बाबासाहेब आंबेडकरांनी शेती आणि शेतकऱ्यांच्या रक्षणासाठी, स्वातंत्र्यपूर्व काळात देशी जमीनदार, वंतनदार, सावकार आणि इंग्रजांशी, तर स्वातंत्र्यानंतर भारत सरकार व वंशील घटकांबरोबर सभा-संमेलने, लेखन, वक्तृत्व या माध्यमातून आणि प्रसंगी रस्त्यावर उतरून मोठा संघर्ष केला. सोबतच त्यांना मिळालेल्या संधी आणि

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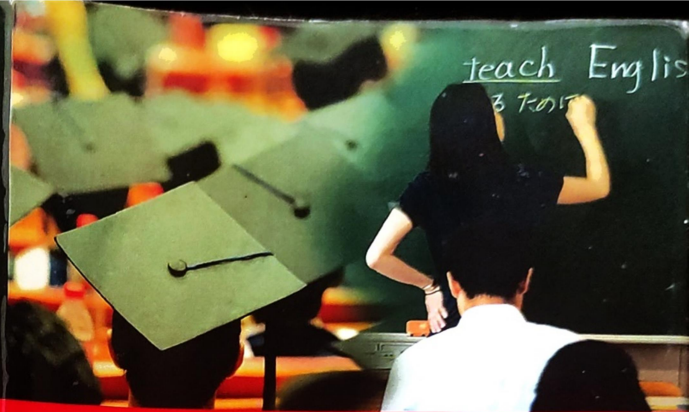
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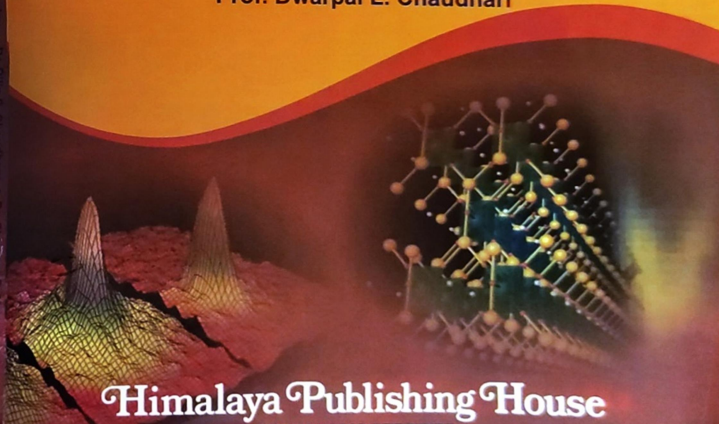
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PREFACE

We feel immense pleasure in bringing out this textbook of Physics for the course of B.Sc. Semester III of Gondwana University, Gadchiroli. Recently, new syllabus was proposed for B.Sc. semester pattern in choice based credit system (CBCS) in Gondwana University. this step has brought in its wake difficulties to the teachers and students; teachers have been acquainted with the new trends of requirements, but the students have confronted to the problem is availability of the study materials and books covering newly prescribed syllabus. Thus, this textbook is aiming to resolve the problem of the students and teachers, by giving the comprehensive details of the topics of the syllabus at one spot.

This book focuses to build the understanding and to enhance the interest of the students to learn the kinetic theory of gases, thermodynamics, theory of radiation and statistical basis of thermodynamics. The book encompasses the complete material in both examination and conceptual point of view. However, the depth of the topic is limited as per the scope of the syllabus and the patterns of the questions asked in the related examination.

It is hoped that this textbook will prove very useful in enhancing the learning of the students and scoring good marks in the examination. Any suggestions towards further improvement will be thankfully acknowledged and incorporated in it in the next edition. The authors are thankful to publishers **M/S Himalaya Publishing House Pvt. Ltd., Nagpur.** for having undertaken this gruelling task of publishing out this book.

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Unit-I (Kinetic Theory of Gases & Transport Phenomena):

1. Assumptions of Kinetic theory of gases, Pressure exerted by gas (no derivation), Derivation of Maxwell's law of distribution of velocities and its experimental verification, Degree of Freedom (Mono, Di and Polyatomic gases), Law of equipartition of energy, Mean free path, Expression for mean free path and its dependency on temperature and pressure.
2. Transport of momentum & viscosity of gas(η), Transport of energy & thermal conductivity (K), interrelationship between η & K, dependency η & K on temperature and pressure, Transport of mass (diffusion).
3. Numericals

Unit-II (Concept of Thermodynamics):

1. Thermodynamic system, Thermodynamic variables (Intensive and Extensive), Thermodynamic equilibrium, Thermodynamic process (Isothermal, Adiabatic, Isobaric, Isochoric), Zeroth law of thermodynamics and its importance.
2. Concept of Internal Energy, First law of Thermodynamics and its applications and limitations, Derivation of Work done during isothermal and adiabatic process, Adiabatic relations between P, V and T, Specific heat (Definition), General relation between C_p and C_v , Thermal expansion and Compressibility.
3. Numericals.

Unit-III (Second and Third laws of Thermodynamics):

1. Reversible and irreversible process, Second law of Thermodynamics (Statements), Heat Engine and its efficiency, Carnot's Ideal heat engine, Carnot's cycle, Carnot's Theorem (Only statement).
2. Concept of entropy, Second law of Thermodynamics in terms of entropy, Entropy changes in reversible and irreversible process, T-S diagram and derivation of Work done and efficiency, Third law of Thermodynamics.
3. Numericals.

6. Dr. R.B. Shambharkar





IN VITRO EVALUATION OF ANTICANCEROUS ACTIVITY AND PHYTOCHEMICAL ANALYSIS OF *B. MONOSPERMA* L. SWOLLEN RACHIS

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ABSTRACT

Cancer is leading cause of the death worldwide after cardiovascular disease and the incident of cancer are increasing day by day. Plant derive medicine is alternative treatment as available anticancer drugs has severe side effects. In present investigation the inhibitory effect of different concentrations of methanolic extract of swollen rachis of *B. monosperma* L. on breast cancer cell lines was evaluated. Results of the study has been shown that the selected plant part inhibit the proliferation of cancer cells with LD50 value 42.3336 μ g/ml.

Keywords: Cancer, Proliferation, Cell lines MCF 7, Herbal medicine

1. Introduction

On this earth, every organism connected with another one directly or indirectly leads to the formation of association in them which may be harmful or beneficial. Due to the harmful association human being faced life threatening diseases. With such dreadful diseases some other diseases are there where human effort fails to detect exact cause and treatment. Now a day cancer is such disease of this category. In the current study, we focused on breast cancer as with ageing, older women posses more threat towards illness such as breast cancer, cardio toxicity and neurodegenerative diseases (de la Cruz *et al.*, 2014; Abouzahr, 2014; Alzheimer's association, 2014) and also understanding the role of medicinal plants available in the India, especially in Maharashtra which have been suggested by the herbal practitioner's especially in rural area and tried to find out the potent anticancer plant sources. It has been stated that, botanical extract are product of

multicomounds and they certainly affects each other, leading to additive, synergistic and /or antagonistic effects (Wagner, 2011; Pelkonen *et al.*, 2014). These have been further tested as complex fractions for breast cancer therapy under *in vitro* conditions to select the promising fractions out of all tested samples. To finalize any plant based remedies, it is suggested to discover the bioactive and toxic phytochemical available in them and further their mechanism of action needs to be deciphered (van Breemen, 2015).

In the present study, an attempt has been made to search for the potent plants and their parts with many active compounds capable of showing anticancer activity especially against breast cancer.

2. Experimental

Plant material was selected on the basis survey visits undertaken to herbal practitioners to record herbal anticancerous agents in the Gadchiroli region. After the selection of suggested plant part, the same was collected from the field.

Plant source: *B. monosperma* L.

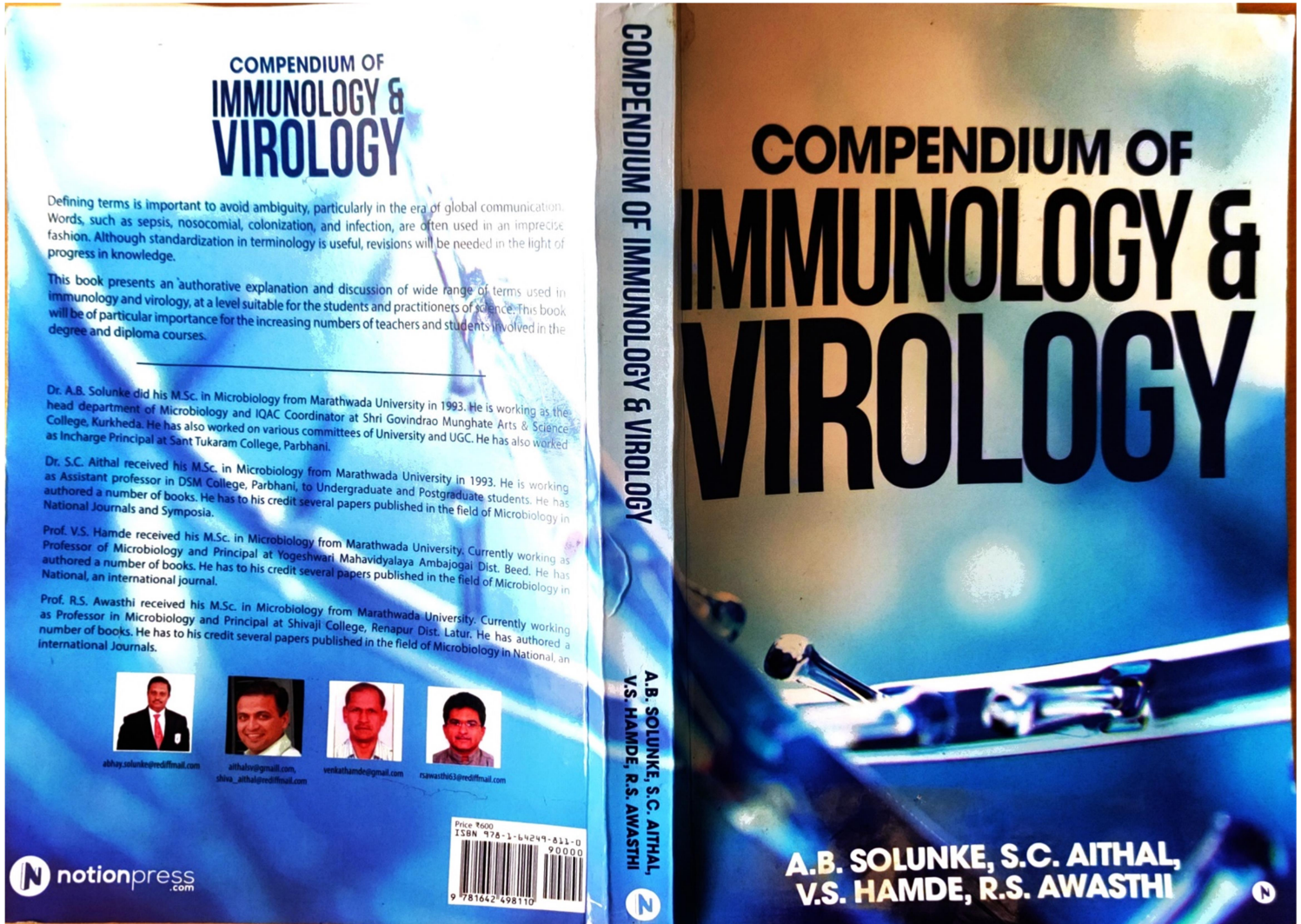
Common Name: Palas

Plant part: Swollen rachis

Classification

Kingdom: Plantae
Division: Angiosperms
Class : Dicotyledoneae
Order : Fabales
Family : Fabaceae
Genus : *Butea*
Species: *monosperma*

7. Dr. A.B. Solunke



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8. Dr. S.M. Mahajan

**One Day Interdisciplinary National Conference
on**

**“Drug Addiction-A Main Problem Of Indian
Society In Current Scenario”**

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प्रा. डॉ. संजय भार्तेराम मल्लजन
श्री गोविंदराव मुनगाटे कला व विज्ञान महाविद्यालय, कुस्सेडा
जि. महाराष्ट्र
मो. न. ९०४९७५७९६०

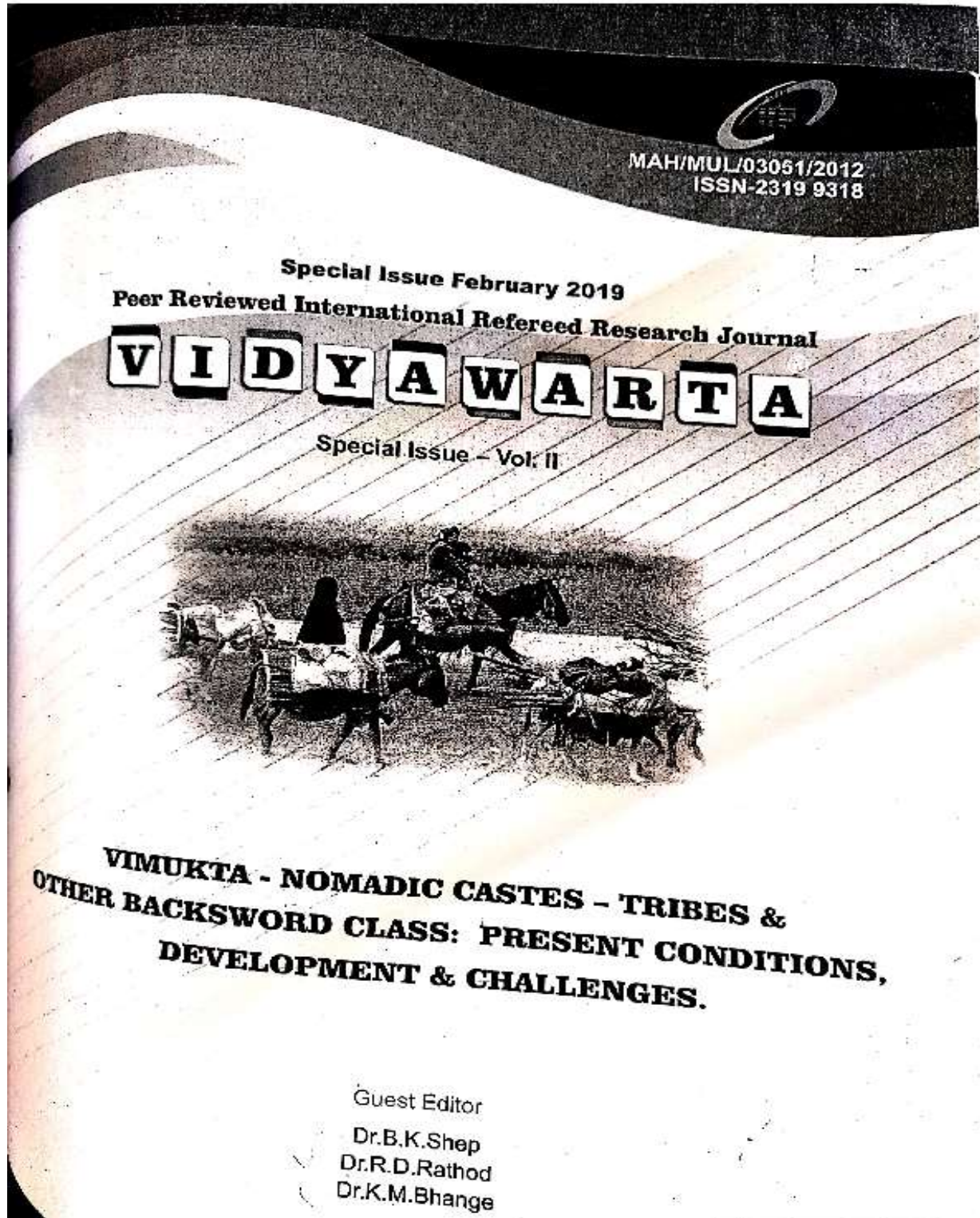
भारतात व्यसनमुळे युवा पिढी वाया जात आहे. व्यसन आणि त्याचे दुरगामी परिणाम माहित असून त्यापासून परवृत्त होण्याकडे जाणाऱ्या तरुणांचा कल नाही. जाणून घ्यायला देशाचे पक्षिभ्रष्ट आहे. मात्र व्यसनाधीन युवा वर्ग देश कसा संभळणार असा प्रश्न पडतो. कारण व्यसन एक विनाशकारी खडक आहे. या वादळात आज आपल्या देशातील युवा पिढी अडकलेली आहे. या विनाशकारी वादळाचा आतंजच कर पांढऱ्याने नाही, तर कितीतरी नवयुवक आणि युवती नव्या सतकना पहिले उगावता सुरु नवभवासाठी शिल्लकच राहणार नाही.

व्यसन म्हणजे एखादी अशी सवय करी, ज्यामुळे मोठ्या प्रमाणावर शारीरिक, मानसिक व सामाजिक त्रास होत असल्याची जाणीव होत असूनही त्यात बदल करणे शक्य होत नाही. मादक पदार्थ म्हणजे तंबाखू, सिगारेट, दारू, गांज, करस, झोपेच्या गोळ्या इत्यादी. अशा प्रकारच्या कोणत्याही पदार्थाचे अतिरेकी सेवन करणाऱ्या व्यक्तीला व्यसनी ही पदवी प्राप्त होते. व्यसनी व्यक्ती स्वतः विनाशाकडे जातच असते आणि त्याबरोबर बायको, मुल, आप्तपरिवार, मित्रमंडळी अशा अगणित कुटुंबांना दुःखात छोटा असते. मुख्य म्हणजे याची जाणीव त्याला असली तरी त्याचा नाईलाज असतो. इतकं तो व्यसनाच्या आहारी जाऊन इतकं लालसेल असतो. व्यसनापायी ओढवून घेतलेली मानसिक गुलामगिरी, यालाच म्हणजे लगेज.

दुष्प्रमाण आणि तंबाखू खाणाऱ्यांची संख्या दिवसेंदिवस वाढत आहे. नीकनात आलेल्या संकटांशी खमना करताना आलेल्या नैराश्यातून व्यसनाची सुरुवात होते. तसेच मनाचा कमकुवतपणाही कारणीभूत आहे म्हणजेच व्यसनापिनता हे मानसिक रोगाचे कारण आहे. दारू, करस, गांज, ब्राउन शुगर, ड्रग्स, यांच्या सेवनानेच जीवनात आलेल्या संकटांवर मात करता येते हे ह्या गैरसमजुतीतून व्यसनाला सुरुवात होते आणि नंतर त्यांच्या आहारी मग्न होऊन कधी कधी ते त्यालाही कळत नाही. केवळ रंगत किंवा आनंद म्हणून सुरुवात होऊन नंतर ते व्यसन मग्नत्वाच्या नसानसात पिनते आणि ते करण्याचे बंद केल्याने पुन्हा नैराश्य येत आणि मग त्याची शंखल कनते. दारू, तंबाखू, हुक्का, ड्रग्स मिळाले नाहीतर त्या व्यक्तीला मानसिक तसेच शारीरिक त्रास होतो. व्यसन हे केवळ गरिबीमुळे खडते असे नाही तर गरिबीचा श्रीमंतांमध्ये व्यसनाचे प्रमाण खस्त दिसून येते. अलीकडच्या काळात तरुण आणि तरुणीमध्ये मोठ्या प्रमाणावर दारू, तंबाखू, हुक्का, ड्रग्स, हुक्का या व्यसनाचे प्रमाण वास्त वाढलेले दिसून येते.

व्यसन म्हणजे मानवी शरीराला आणि पर्यायान मानवी आयुष्याला लागलेली एक कीट. विशेष म्हणजे आजची तरुण पिढी काहीतरी झिल्लर, अगवेगळ करण्याच्या आविर्भावत चुकीच्या संगतीमुळे मोठ्या प्रमाणात व्यसनाधीन होत चाललीय आणि जीवावर नेतपाऱ्या या समस्येच्या परिणामांची पूर्ण कल्पना असूनही 'कळतंय पण बळत नाही' या उक्तीप्रमाणे झोळेकाक करून सर्वोप पणे व्यसनाच्या विचारी विळखत अलगदपणे ही पिढी घामावली जात आहे व आपले आयुष्य बरबाद करत आहे. व्यसनापिनता देशासाठी व समाजासाठी फारच घातक असून याचे प्रमाण असेच सुरू राहिले तर भारताला व्यसनाधीन देश म्हणून जगात ओळखले जाईल. यावर प्रतिबंध घालावे यासाठी भारत सरकारने सिगारेट व अन्य तंबाखू उत्पादने फायर' (शाहीरात प्रतिबंध आणि व्यापार आणि उद्योग उत्पादन पुरवठा आणि वितरण विनियमन अधिनियम २००३) करण्यात आला. 'सिगारेट व अन्य तंबाखू उत्पादने अधिनियम २००३'

9. Dr. R. V. Vikar



**One Day Interdisciplinary National Conference on
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विमुक्त — भटक्या जमात — गोपाळ समाजाची समस्या

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श्री. गोवंदराव मूनघाटे महाविद्यालय, लुखेडा जिल्हा — गडचिरोली

गोपाळ ही जमात महाराष्ट्राच्या भटक्या विमुक्त गट — व या प्रवर्गात मोडते या 'गोपाळ' शब्दावळण हा समाज गाई-म्हशी या जनावरांच्या संगोपनाचे करतो हे स्पष्ट होते. आपल्या या व्यवसायात धतत स्वलांतर फक्त असल्याने भटके आयुष्य जगणे भांग होते. गाई सांभाळण्यास 'गे' पालक म्हणून या समाजाने नाव गोपाळ असे रूढ झालेले आहे. महाराष्ट्रातील वेगवेगळ्या भागात हा समाज आढळतो. हा समाज स्थलांतरीत समाज आहे. या समाजातील रुढी-परंपरा अनुनही भटक्या-विमुक्त गटातील आहेत. या समाजात शैक्षणिक व आर्थिक दृष्ट्या मागासलेले स्थिती आहे. ही जमात महाराष्ट्र, गुजरात व मध्यप्रदेशात या राज्यात आढळते. या तिन्ही राज्यात हा समाज घटने जमाती या प्रवर्गात ठेवण्यात आला आहे. भारतांत संविधानात उतर मार्गास प्रवर्ग, अनुसूचित जाती व जमाती या विषयीची तरतूद करण्यात आली. परंतु त्याचे प्रयत्न अनुनही झालेले नाहीत. हा समाज भटक्या समाज आहे. हा समाज सरते स्वलांतर, अंधश्रद्धा, व्यसनाधिनता सावर गालभलोचा आणव, इ. समस्यांनी ग्रसला आहे. पारंपारिक व्यवसाय हा गाई-म्हशीचे संगोपन करणे असला तरी आपल्या राज्यात विविध भागातील लोक वेगवेगळ्या व्यवसाय करतांना आढळतात. उदा - तड्या मारण्याचा मनोरंजक खेळ, कसरती, दौडणरून चालणे, एक लहान रिंगातून संपूर्ण शरीर बाहेर काढणे, देव-गिर यांच्या नांवावर दान मागणे, शेती करणे, गाई-म्हशी इतर जनावरांचा व्यापार करणे. इ. पास्करा / राशी ही बोली गोपाळ समाजातील लोक बोलतात.

भारतीय समाजामध्ये अत्यंत दुर्मीळ वटक म्हणून 'गोपाळ' समुदायाचा विचार करावा लागतो. जो अनेक पिढ्यांपासून भटक्या अवस्थेत जगत आहे. अनेक समस्यांच्या जोखडात हा समुदाय हाका जाखडला आहे तरी त्यातून बाहेर पडणे त्यांना कठीण झाले आहे. त्यांना संगोपन विनवस व्हावा या दृष्टीने सामाजिक, शैक्षणिक, आर्थिक विकासाच्या शासनान्या योजना या समुदायांसाठी निष्पक्ष ठरत आहेत. कारण या समुदायांमधील सामाजिक नियम व परंपरा बळीर असल्यामुळे त्यांचे प्रामीण समाजाशी समावेश

व त्यांच्यामध्ये परिवर्तन होणे आणही कठीण असल्याचे दिसते. स्वातंत्र्यप्राप्तीनंतरच्या अनेक वर्षांनंतरही या समुदायांमधील जो बदल होत आला तो फारच अल्प प्रमाणात झाला आहे.

गोपाळ समुदायातील लोक अनेक ठिकाणी गावकुसाच्या चार, आठ दिवस तंबू तणून, झोपडी बनवून, अंगाला पळी आणजे, जिवावर उदार होवून कातक शारीरिक खेळ दाखवून नंतर गिक मागणाऱ्या हा समाज

भारतीय समाजव्यवस्थेत गरिबीचे आणि अशिक्षित जीवन जगणाऱ्या अनेक जमाती आहेत. या सर्व जमातींमध्ये भटक्या विमुक्त समाज आहेत. प्रत्येक राज्यांनी त्यांच्या भवितव्याचा प्रयत्न घेऊन त्यांना प्रगत समाजाच्या प्रवाहात आणण्याचा प्रयत्न झालेले आहेत. असे असले तरी हे प्रयत्न इतके अल्प आहेत की या देशातील भटक्या आणि विमुक्त जमातींमध्ये फक्त कमी सुधारणा झाल्याचे दिसत आहे. त्यांच्यामध्ये अद्यापही मोठ्या प्रमाणात अशिक्षित, बेकारी, अंधश्रद्धा, अशिथिलपणा कायम आहे.

'गोपाळ' जमात ही मुळावी गुजरात प्रांत मधली, त्यांच्या व्यवसाय मोठफुलपासून धरून फाडणे, पशुपालन करणे, रस्त्याकरीबी चौकात खेळ दाखविणे आणि भिक्षा मागणे हे आहेत. यार त्यांच्या उदारविर्तात चालत असतो. त्यांच्या स्वतःच्या जमिनी नसून त्यांना रोजगार प्रातोसाठी सतत भटक्याने लागते. शासनाने त्यांना जमातीचे प्रमाणन दिले नाही. पारिव्य खेळाळच्या यादीत त्यांना नाव नाहीत. त्यांच्यापैकी एखादा दुसरा अपवाद सोडल्याने शासनाकडून कोणता भरकळ मिळाले आहे. असे ऐकण्यात नाही. त्यांच्या जनक रेशनकार्ड सुध्दा नाहीत. कारण त्यांना पत्नी समाजाचा अडाप वाय लागला नाही. शासनान्या योजना क्व आहेत याची नाहिती त्यांच्या पर्यंत पोहोचली नाही, ती पोहोचले पाहिजे याची तसदी कोणी घेतली नाही आज आधुनिक तंत्रशास्त्राच्या युगात मात्र थोडे परिवर्तनाकडे चळत आहेत.

गोपाळ जमातीच्या समस्या :-

'गोपाळ' जमातीचे सुद्धा अवलोकन केले असता रोजगार, भाग, संस्कृती, धर्म, शिक्षण, निवास, शेती अशा अनेक समस्या आहेत. यामध्ये आर्थिक समस्या मोठव प्रमाणात वेडल्या आहेत.

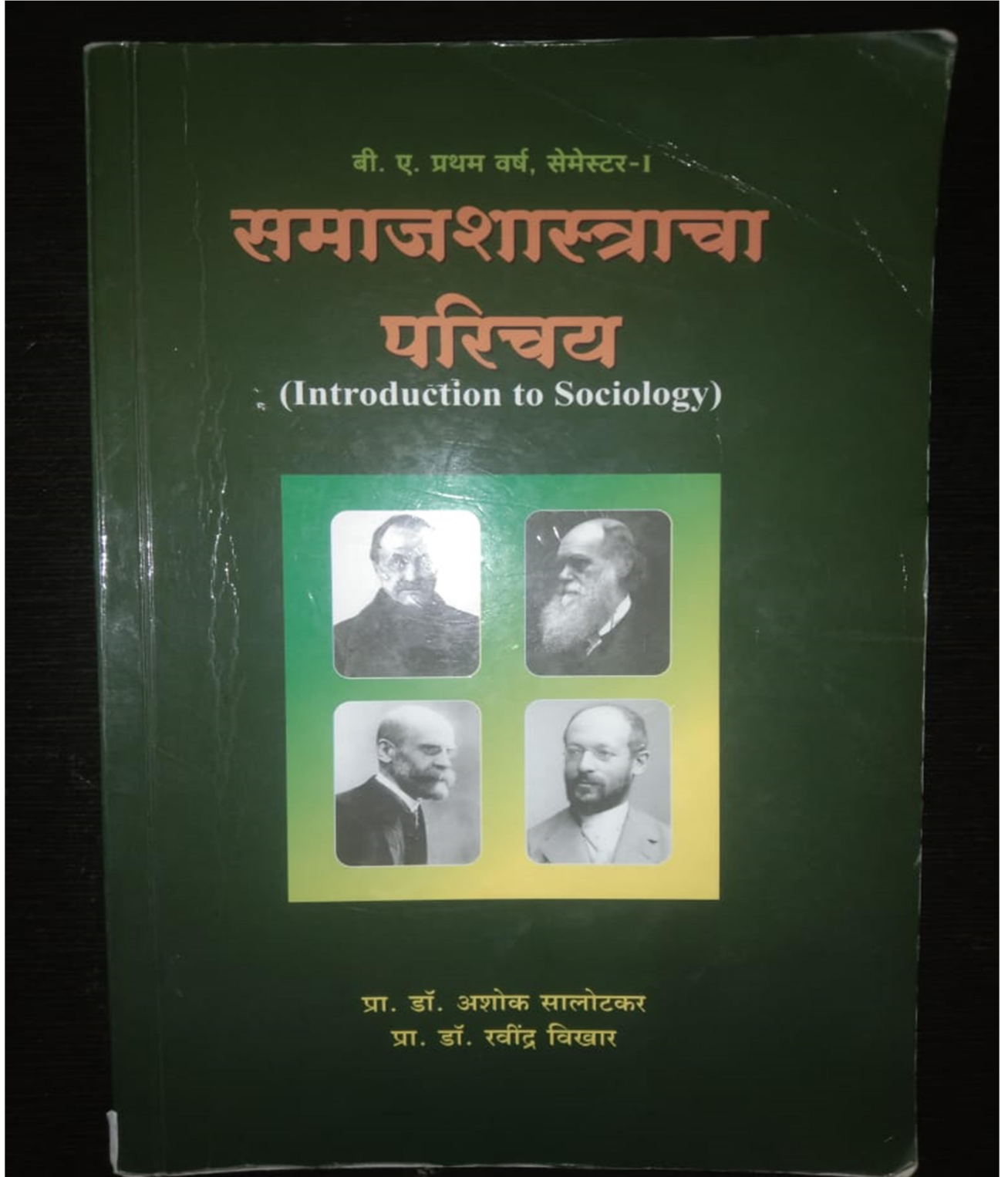
१) आर्थिक समस्या -

ही सर्वात अग्रगण्य समस्या आहे. त्यांच्या मुळावी शारानन जबाबदार आहे. हे 'गोपाळ' जमा वस्तीत राहतात विविध जंगलांनी पार मोठ्या प्रमाणात तोंड होत आहे. ह्या भाग्य नजुरीचे प्रमाण फारच कमी आहे. शेती करण्यासाठी जमीन नाही, बोडीशी शेती आहे. ती सुध्दा गुन्या पध्तीची आहे. त्यापासून त्यांना अगरे उत्पादन मिळते. ह्या जमातीसाठी ज्य योजना शासनाने वाटू केल्या क्वा रोई सवलती मिळतात. ह्या त्याजनातीपदत अनुनपर्यंत पोहचल्या नाही. त्यामुळे ही समस्या ह्य जमातीमध्ये फार मोठ्या प्रमाणात वेडल्या आहेत

२) भावेविषयी समस्या :

ह्या जमातीचा संबंध प्रामुख्याने हिंदू समाजाशी केले त्यामुळे त्यांना आपल्या स्वतःच्या भावेविषयाय दुसरी भाषा शिकवणे लागते. ह्या कारणामुळे त्यांचे मर्यानेवडे दुर्मीळ होते. गिवा

11. DR. R.V.Vikar



समाजशास्त्राचा परिचय : प्रा. डॉ. अशोक सालोटकर, प्रा. डॉ. रवींद्र विखार
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वाण्टू-३२

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वाण्टू

मुद्रितसोपन
प्रा. डॉ. भागी सावरणे
प्रा. विद्यालया मार्ग

मुद्रण : १ १५०-००

आमच्या प्रकाशनात दिलेल्या लेखांची पूर्ण जबाबदारी व सर्वाधिकार लेखकांक आहेत. प्रकाशकांनी व लेखकांनी या लेखांचे सर्वाधिकार जबाबदारी जतन करावी. प्रकाशकांनी व लेखकांनी या लेखांचे सर्वाधिकार जबाबदारी जतन करावी. प्रकाशकांनी व लेखकांनी या लेखांचे सर्वाधिकार जबाबदारी जतन करावी.

अनुक्रमणिका

युनिट-१ :	समाजशास्त्राची ओळख (Understanding Sociology)	१ ते १८
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■	संदर्भ ग्रंथ	९८

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12. DR. R.V.Vikar

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डॉ.बाबासाहेब आंबेडकर विश्वविद्यालय, चंद्रपूर जिल्हा संशोधन
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चंद्रपूर जिल्हा संशोधन
भारतीय समाजशास्त्र परिषदेचे २९ वे राष्ट्रीय अधिवेशन
दि. १८ व १९ जानेवारी २०१९

"जनसंवाद आणि सामाजिक माध्यमांचा भारतीय समाजावर प्रभाव"

मुख्य संपादक

डॉ. विमला राजेश कांबळे,

डॉ. बाबासाहेब आंबेडकर कला, वाणिज्य व विज्ञान महाविद्यालय, ब्रम्हपुरी, जि. चंद्रपूर

सहसंपादक

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५. स्मार्टफोन— स्मार्ट फोनने समस्त विश्वात एक क्रांती आणलेली आहे.परंतु या स्मार्ट फोनमुळे तरुणवर्गात अनेक गुंतागुंतीच्या समस्यादेखिल निर्माण केल्या आहे. केवळ मनोरंजन व टाईमपासचे साधन म्हणून त्याचा वापर मोठ्या प्रमाणात तरुण पिढिमध्ये केला जात आहे. आणि विकसित बहुगुणिय कंपण्याकडून घेतलेल्या इंटरनेट डेट्याची मोठी किंमत देशाला विदेशी कंपण्यांना चुकवावी लागत आहे. त्यामुळे मोठ्याप्रमाणात आपल्या देशाचे विदेशी विनिमयाचा वायफळ खर्च होत आहे. सॅमसंग, अॅपल या क्षेत्रातील नामांकित कंपण्या आपल्या देशाकडे मोठी बाजारपेठ म्हणून पाहू लागले आहे त्याचा परीणाम या क्षेत्रातील देशी बाजारपेठ नष्ट होण्याच्या मार्गावर आहे. या स्मार्ट फोनमुळे तरुणांचे व देशाचे फायद्यापेक्षा नुकसानच अधिक होत असल्याचे दिसत आहे.

समारोप

वृत्तपत्रे, आकाशवाणी, दुरदर्शन व माहिती व तंत्रज्ञान या प्रसार माध्यमांचा आपल्या जीवनावर कसा परिणाम होतो आणि त्यामुळे या प्रसारमाध्यमांची कार्य भूमिका असली पाहिजे या विषयी चर्चा केली आहे. ही प्रसार माध्यमे आपल्या दैनंदिन जीवनाचा भाग झाली आहेत. हे जरी खरे असले तरी आजच्या परीस्थिती मध्ये या प्रसारमाध्यमांचे दुष्परीणाम सुध्दा जाणवू लागले आहेत. प्रसारमाध्यमांचा उपयोग हा जनकल्याणासाठी न होता तो आता स्वतःच्या स्वार्था साठी व राजकीय उद्देश पूर्ण करण्यासाठी केला जातो हे अलिकडच्या परिस्थिती वरून दिसून येते. त्याच प्रमाणे माहिती तंत्रज्ञानाचा म्हणजे सोशल मिडीयाचा इंटरनेटचा उपयोग योग्य कामासाठी न करता त्याचा सुध्दा दुरुपयोगच होताना दिसतो.

संदर्भ :-

१. प्रसारमाध्यमांसाठी लेखन कौशल्ये - य.च. म.मुक्त विद्यापीठ नाशिक.
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माध्यमे आणि समाज एकाच नाण्याच्या दोन बाजू आहेत. माध्यमांशिवाय समाजविकास नाही. विकासासाठी दर्जेदार माध्यमांशिवाय पर्याय नाही असे चित्र आहे. समाज उभारणीसाठी माध्यमे अविभाज्य झाली आहेत. सामाजिक बदल घडवून आणण्यासाठी माध्यमांचे मुक्त प्रारूप आवश्यक आहे.

जगात झपाट्याने जर काही वाढत असेल तर ते म्हणजे सोशल मिडियाचा वापर. पूर्वी पोस्टचा उपयोग संदेश पाठविणे, चिट्ठी पाठविणे, इ.साठी व्हायचा आज त्याची जागा ई-मेल, व्हॉट्सअॅप, इन्स्टाग्राम, फेसबुक, इत्यादी नि घेतली आहे. खरे तर साराच मिडिया हे मुख्यतः संवादांचे माध्यम आहे. काही वर्षांपूर्वी इंटरनेटची सुविधा फार खर्चीक असल्यामुळे मध्यमवर्गीय व गरीब लोक त्याकडे फार आकर्षित नव्हते. परंतु दोन-वर्षांपूर्वी रिलायन्सच्या जी००ने क्रांती केली आणि लोकांनी सोशल मिडिया चे दारे सर्वासाठी खुले केले.

आधुनिक युग हे माहिती आणि प्रसार माध्यमांचे युग आहे. डिजिटल जग ही आजच्या जगाची ओळख आहे. जीवनाच्या प्रत्येक क्षेत्रात माहिती आणि तंत्रज्ञानाने शिरकाव केला आहे. प्रसारमाध्यमांनी जीवनाच्या सर्व क्षेत्रातही माहिती अगदी सर्वसामान्यपर्यंत पोहचविली आहे. वर्तमान जीवनाबरोबरच अनेकतर्क या क्षेत्रात लावण्यात येत आहेत. प्रसारमाध्यमांमुळे जीवनात आमूलाग्र असा बदल अपणास दिसते

आजच्या काळात सोशल मिडिया ही अपरिहार्य गोष्ट आहे. समाजाच्या मुख्य प्रवाहात सह इच्छितांच्या काहीतरी करू इच्छितांच्या आजच्या काळातल्या कुणालाही सोशल मिडियाशिवाय जगण अशक्य आहे हा बदल अगदी अलिकडच्या काळातला आहे. गेल्या

13. Dr. N.T. Arekar

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साहित्य आणि समाज यांना अगुर्वंभ इतका तट्ट अहे की अनेकदा समाजातील साहित्यात तर साहित्यातील समाजात हे चित्र निदर्शनास येते. सांस्कृतिक समाज हा अनेक उद्ग, भूल्ये याच्या पुर्वी अस्तित्वात असतो. पण याच समाजात निर्माण झालेल्या व्यू जिव मूल्यानी पुढच्या काळाखंडातील समाजव्यवस्थेचे चित्र बदलत जाते मात्राचे निर्माण केलेले निम्न, कावडे, जस्या, चापने, फला, अध्यायन, विज्ञान, शास्त्र यांनी माननी जीवनाला व्यापून टाकले आहे. त्यामुळे या घटकांचा परिणाम समाजजीवनावर झाल्यावाचून राहत नाही. अनेकदा तर आधी यानाचण रचले गेले आणि नंतर राम जमाल आल्याच्या आख्यायिका रागितल्या जातात. पणजेव साहित्यकृतीमध्ये भविष्य जन्माला घालण्याचे मानर्थ अस्तित्वात असते असे म्हणजे लागते. काही साहित्यकृतीतील व्यक्तिरेखा इतक्या लोकप्रिय झालेल्या अस्तित्वात आणि कथांमध्ये समाजावर इतका प्रभाव कायदा केलेल्या अस्तित्वात की त्या व्यक्तीरेखांचे गुण दोष बाण केलेल्या वर्तमानजालीन व्यक्तींना त्या व्यक्तीरेखांच्या नावे संबोधले जाते. उदा. मनु-पितृ भक्त असलेल्या व्यक्तीला श्रावणा, घडीलाचा शब्द पळ्या-याला राम, वाईट इवलीच्या व्यक्तीला रावण, खूप शोपणा-याला कुंभकर्ण, पतीमात्री वाटेर ती करणा-या खिल सखिनी, पतीपत्रेला किता इयदी पौराणिक साहित्यातील व्यक्तिरेखा जशा तसेच आधुनिक साहित्यातील व्यक्तीरेखाही आहेत. जसे हेमभान झालेल्या व्यक्तीला देवदारा तर दाखल्या जालात केलेल्याला गळीरम असे संबोधतात. अस्तित्वाच्या सैरत या मराठी सिनेमातील आर्ची आणि परजा अशा व्यक्तीरेखांच्या स्वभाव विरोधाने आशेजई समाजधर्मा स्वभावाच्या व्यक्तीबाबत केले जाते. याउरून आपल्याला साहित्य कलाकृती व त्यातून अगोव्यक्त झालेल्या व्यक्तिरेखा वर्तमानकालीन समाजातही स्वभाव विशेषानी जिवंत असतात म्हणून काही श्रेष्ठ कलाकृती कालमर्यादा ओलांडून वर्तमानात अजरामर होतात त्यातील एक कलाकृती म्हणजे मराठी साभूमीवर १९१९ साली सादर झालेली राम गणेश गडकरी लिखित 'एकच प्याला' ही नाटककृती!

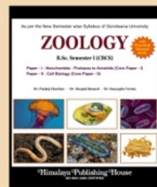
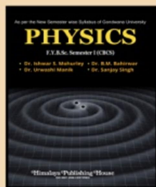
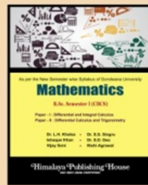
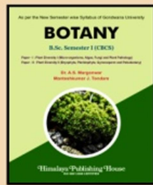
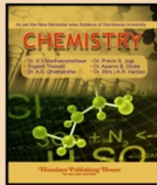
वर्तमान काळात व्यसनाधिनतेचे व्यापलेल्या समाजव्यवस्थेचे दर्शन घेवोपवी होताना १९१७ साली गडक-यांनी लिहिलेल्या 'एकच प्याला' या नाटकाचे अत्यंतप्रभावाच महत्त्व आहे. नाटक, कथा, कादंबरे, कविता किंवा चित्रपट कथा काल्पिक असल्याचे कोलल्या जात असले आणि या सर्व कलाकृतींना प्रातिभोक्त भाषा चरकण्याचे प्रयत्न कलावंतांकडून होत असले तरी ते शुद्ध स्वरूपात शंभर टक्के कालानिक असते असे म्हणता येत नाही. प्रत्येक श्रेष्ठ कलाकृती वास्तवाच्या धोरानु निर्माण होत असते. मराठी साभूमीवर अजरामर झालेले हे नाटक शंभर वर्षांतवरील चित्तव्याच नाटकीने साभूमीवर सादर होते. प्रेक्षक-संविधान साद झाले आणि अनेकचे पदर भिजविते ही नाटक एखाद्या जाल्पनिक कलाकृतीची असून शकत नाही. जेव्हा एखाद्या कलाकृतीतील काही भाग संविधानच्या आभयवृतीला स्पर्श करतात तेव्हाच त्या कलाकृतीला एवढे प्रेम लाभते. मराठीतील अनेक श्रेष्ठ साहित्यकृतींच्या 'विनीतप्रक्षिपेव' शोढ वेतल्यास समाजात घडलेल्या अनेक घटनांचे संक्षेप त्यांच्या मुळाशी अगोव्यक्तच उरून राहतात येते. इंदूरच्या भदिरसज्ज वकिलांनी गरोदर पत्नीच्या आदीपंडावर लक्ष मारल्याच्या हकीगतही ऐकून गडक-यांना 'एकच प्याला' हे नाटक लिहिण्याची सूती झाली किंवा शास्त्राच्या नादापाची धरवाद झालेल्या सी. के. जी. कुटुंबातील प्रत्यक्ष घडलेल्या हकीगातीवरून गडक-यांना हे नाटक लिहिण्याची प्रेरणा झाली असे म्हणतात. यथार्थ कलाकृतीला जामलेले सामाजिक परिमाण स्पष्ट

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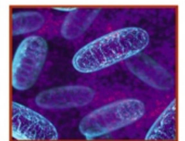


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3. Dr. A. B. Solunke

Recent Advances in Biotechnology

IN THREE VOLUMES

VOLUME I

Edited by

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Fermentation Production of α -Ketoglutaric Acid

Abhay B. Solunke*

INTRODUCTION

α -Ketoglutaric acid is a ketone derivative of Glutaric acid, occurring as endogenous molecule as an intermediate in basic metabolic life cycle i.e. Krebs cycle or tricarboxylic acid cycle(TCA) as an intermediate coming after isocitrate and before succinyl-CoA. IUPAC name is 2-Oxopentanedioic acid and is also called as 2-oxo-glutarate or 2-oxo-glutaric acid or 2-Ketoglutaric acid or alpha-Ketoglutaric acid. Since the discovery of Krebs cycle the salt of alpha-Ketoglutaric acid are known. In aerobic organisms, these anions plays key role in metabolism and are used as dietary supplements in fodps.

Alpha-Ketoglutarate is used in therapeutic and prophylactic preparations for humans and veterinary medicines, including mammals, birds, fish and amphibians. Alpha-Ketoglutarate is used as antibacterial agent against the ureolytic bacteria and in soft drinks. For food industry alpha-Ketoglutaric acid and its salts are the antiseptic agents. Its salts are used as components in improving and enhancing aroma and taste of the fermentation products like cheese. Alpha-Ketoglutaric acid is used for kidney diseases and stomach disorder.

Westerkamp in 1933 reported the presence of α -Ketoglutaric acid in blood serum. Damodaran and Nair in 1938 found the enzymes for converting glutamic acid to α -Ketoglutaric acid from the plants *Phaseolusmungo*, *P. radiates* and *Pisum sativum*. Evans in 1940 produced it from the pigeon liver.

Structure: The oxo substituent is at position 2.Glutaric acid bearing an oxo substituent at position 2.

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4. Dr. A. A. Bhojar

About the Book

The book deals with the issue of finance in universities and the procedure to be followed. The Indian finance code is also given for the reference. The complete Maharashtra University Account Code is given. The rules for appointment and other service conditions are also given in this book.

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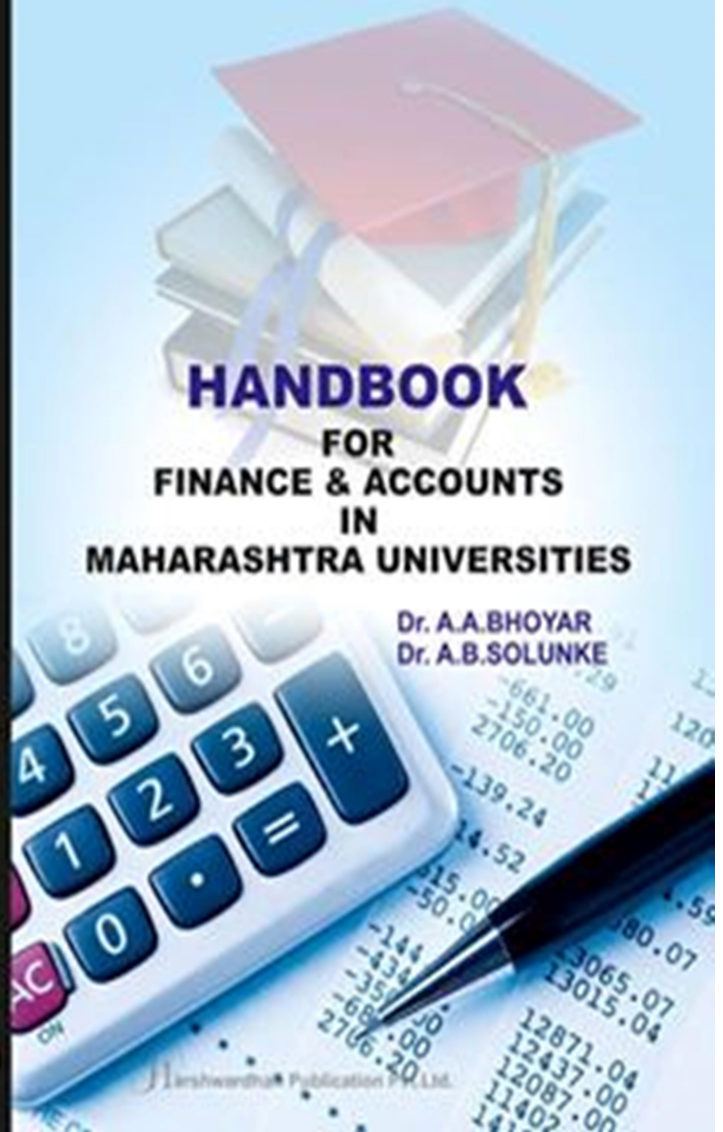


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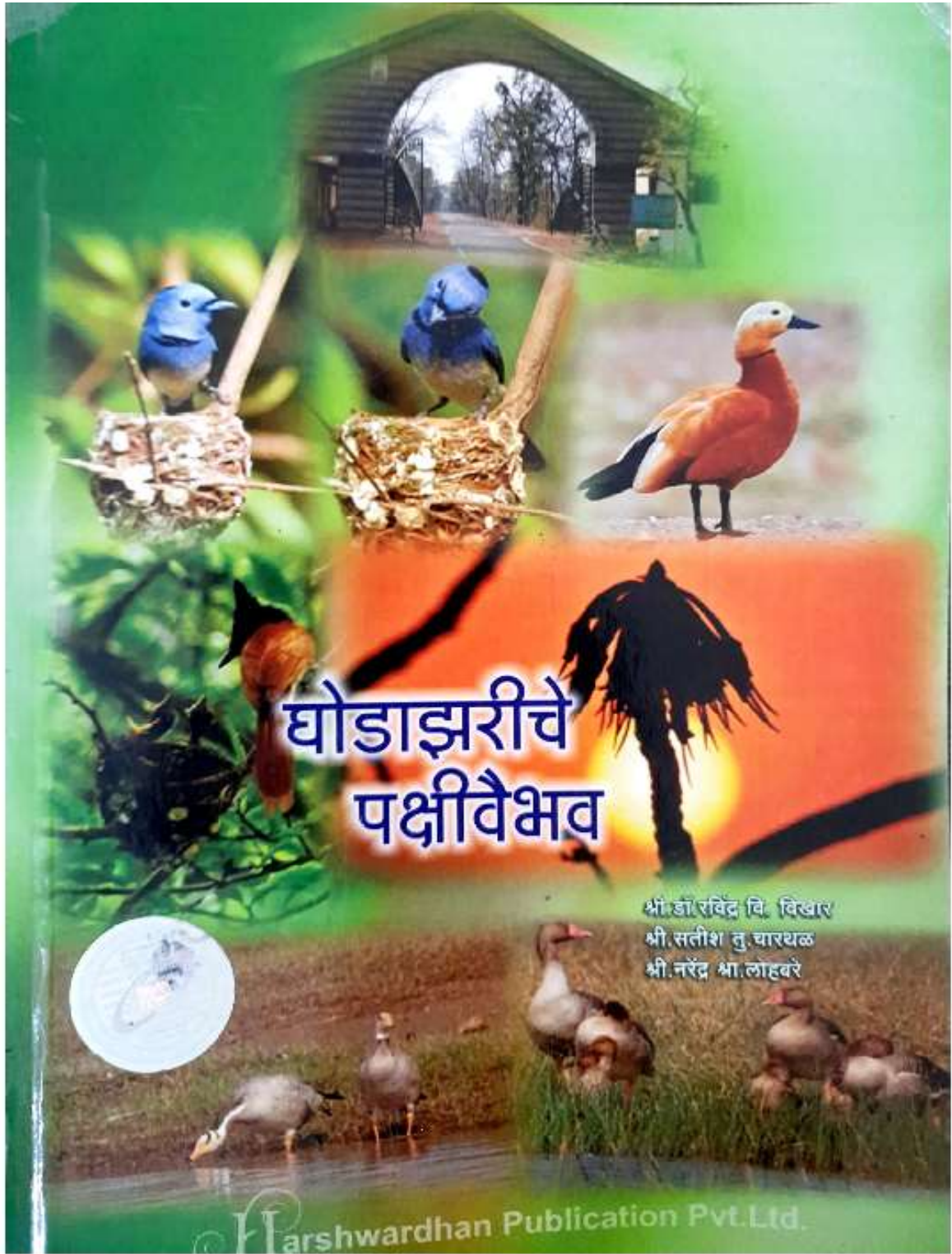
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HANDBOOK FOR FINANCE & ACCOUNTS IN MAHARASHTRA UNIVERSITIES

Dr. A.A.BHOYAR
Dr. A.B.SOLUNKE



5. Dr. R. V. Vikhar



घोडाझरीचे पक्षीवैभव

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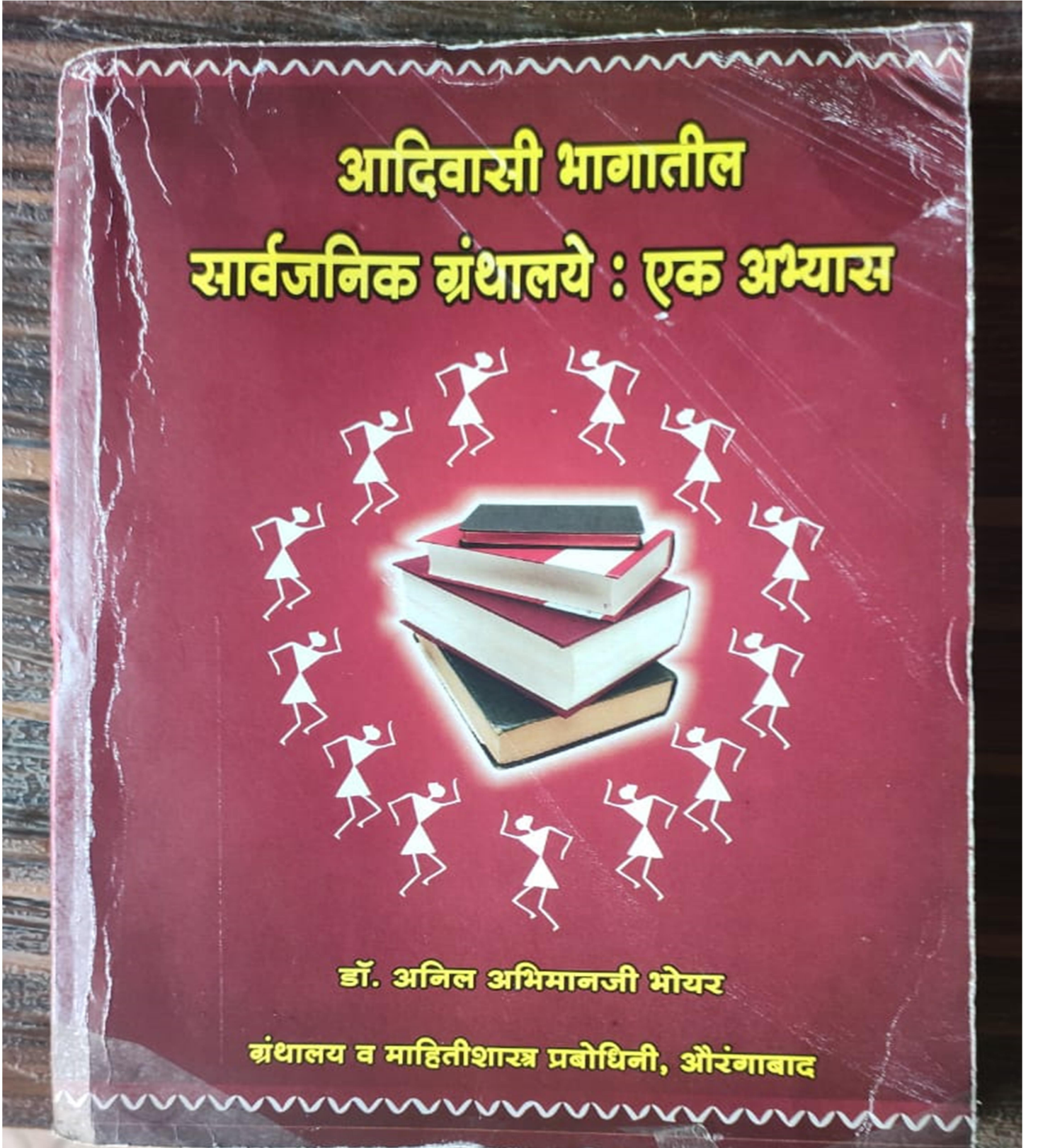
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6. Dr. A. A. Bhojar



डॉ. अनिल अभिमानजी भोयर

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दि. २ जुलै १९९४ पासून पदव्युत्तर व पीएच.डी. मार्गदर्शक, विविध समित्यांवर कार्यरत.
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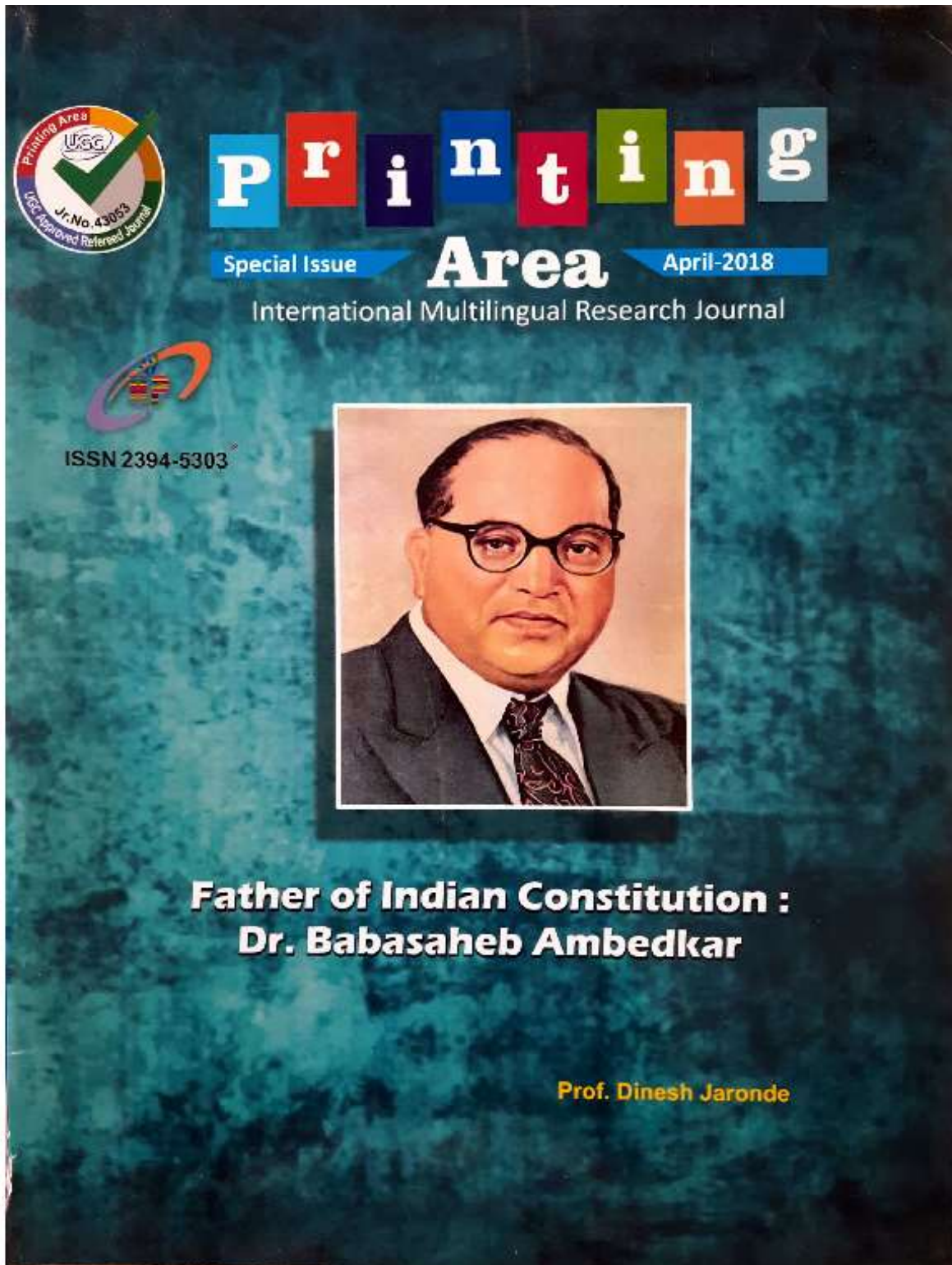
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परिसंवाद, कार्यशाळा यात सक्रीय सहभाग व लेख प्रकाशित.

डॉ. अभिमानजी भोयर यांच्या प्रबंधावर आधारित हा ग्रंथ महाराष्ट्रातील ग्रंथालय चळवळीचे कार्यकर्ते,
ग्रंथालय सेवक, आणि ग्रंथालय व माहितीशास्त्रात वेगवेगळ्या स्तरावर अध्ययन करणारे विद्यार्थी व संशोधक
तसेच स्पर्धा परिक्षेची तयारी करणारे सर्व अभ्यासक यांना मार्गदर्शक ठरेल असा विश्वास वाटतो.
भारतीय समाज व्यवस्थेतील महत्वाचा घटक असलेल्या आदिवासी समाजाच्या विकासात मुलभूत भूमिका
असलेल्या वाचन संस्कृतीबाबत आतापर्यंत कोणताही अभ्यास झालेला नव्हता. आदिवासी क्षेत्रामध्ये साक्षरतेचे
प्रमाण वाढते असल्यामुळे सार्वजनिक ग्रंथालयांच्या वाचक वर्गात वाढ होत आहे. त्यामुळे आदिवासी क्षेत्रातील
सार्वजनिक ग्रंथालये ही समाज शिक्षणाची माहिती केंद्रे होत आहेत. तसेच आदिवासी क्षेत्रातील सार्वजनिक
ग्रंथालयाचा आदिवासींच्या जीवन पद्धतीवर परिणाम होत आहे. तसेच या क्षेत्रातील सार्वजनिक ग्रंथालयांमुळे
विविध शासकीय योजना व इतर माहितीबाबत आदिवासी समाजात जागरूकता निर्माण होत आहे. यात नागपूर
विभागातील आदिवासी क्षेत्रातील सार्वजनिक ग्रंथालये, ग्रंथालय व माहितीसेवेचे राष्ट्रीय धोरण, महाराष्ट्रातील
सार्वजनिक ग्रंथालय आणि माहिती केंद्राचा नियोजित आराखडा त्यांनी संशोधनाअंती प्रस्तावित केला आहे.
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7. Mr. S. M. Mahajan



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भारतरत्न डॉ. बाबासाहेब आंबेडकरांना पटनातज्ञ, कायदयाचे गारुड अभ्यासक, यमदण्टू, राजकारणी अशा त्यांच्या विविध पैटूना आपण ओळखतो. परंतु एक अर्थतज्ञ म्हणून त्यांची ओळख फार दुर्मिळ अशी आहे डॉ. बाबासाहेब आंबेडकरांच्या समृद्ध आणि विविधांगी व्यक्तिमत्त्वाचा एक पैलू म्हणजे ते जागतिक कितीचे व्यासंगी अर्थतज्ञ होते त्यांचे आर्थिक विचारांचे योगदान आपल्याला त्यांच्या एम.ए., पीएच. डी., एम. एस्सी.डी. एम.सा. या शैक्षणिक करकिर्दीत केलेल्या लिखणातून दिभ्रुन येते व खात्री पटते की ते एक जागतिक कितीचे अर्थतज्ञ होते. नंतरच्या काळात डॉ. आंबेडकरांनी स्वःचाला गानत मुक्तीच्या लढयात झोकून दिल्यामुळे त्यांचे सामाजिक, राजकीय आणि धार्मिक विचारां जिवंत राहिल्या समजले त्याप्रमाणे आर्थिक विचार समजले नाहीत. डॉ. बाबासाहेबांच्या विचारांचा त्या-त्या अंशानुसार विचार होऊन, त्या आभाषावर आर्थिक नियोजनाची अंमलबजावणी झाली असली तर आज भारताचा वेगळा नकाशा जगाला पहायला मिळाल्या असता म्हणून त्यांचे काही आर्थिक विचार या शोधनिबंधाच्या रूपाने मांडण्याचा प्रयत्न.

डॉ. बाबासाहेबांचे कृषीविषयक विचार :-

डॉ. आंबेडकरांचे कृषिविषयक विचार देशाला आणि येतल्याला आर्थिकदृष्ट्या सक्षम करणारे आहेत. शेजकाच्या समस्या व त्यावरील उपाय त्यांनी "Small Holdings in India and Their Remedies and state and Minorities" मधून व्यक्त केले आहे.

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... people
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... Thus, if
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9. Dr. R. G. Munghate

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10. Dr.G.D.Satpute





Evaluation Nutrient Index by Using Organic Carbon to Determine Soil Fertility Status of Kurkheda Tahsil of Gadchiroli District, Maharashtra (India)

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ABSTRACT

Soil is an important natural resource on the earth. The present paper deal with the study of evaluation nutrient index by using organic carbon and to determine soil fertility status of Kurkheda tahsil of Gadchiroli district. Spatial distributions for chemical properties were examined in the soil samples of selected agriculture fields in ten different location of Kurkheda tahsil. It is observed that soil organic carbon content of soil samples was in the range of 0.54 to 0.82 and majority of the soil samples belongs to nearly high level as per the nutrient index (2.30).

Keywords: Nutrient index, soil organic carbon, Kurkheda tahsil, soil fertility.

I. INTRODUCTION

Soil is a vital natural resource, that is nonrenewable on the human time scale and it is a living, dynamics, natural body that play money key role in terrestrial ecosystem. **(Jenny 1980). The earth's soil cover is one of the main** reservoirs of organic carbon in biosphere. In accordance with long –term international strategies (IPPC, 2001). It is essence of life and health for the well-being of mankind and animals and major sources of most of our food production. The maintains of soil health of soil health is essential for sustained productivity of food, the decomposition of waste, storage of heat, sequestration of carbon and the exchange of gases. However, only limited area of the soil can actually be used for growing food and when improperly managed. It can be eroded, polluted or even destroyed. (Brandy and Weill, 2000).

Historically, few former used chemicals, but maintains soil fertility by allowing long fallow period. Today, former have increased uses of chemical fertilizer and herbicides, and follow cycles have decreased or disappeared, with the continued use of the land becoming more frequent (Zhang and Zhang, 2007). Frequently, loss of productivity has been related to the

loss soil organic matter (SOM) and stored nutrients that result from cultivation (Juo, et al, 1996). Hence an understanding of the distribution of the soil properties at the fields scale is important for refining agricultural management practices and assessing the effect of agricultural on environment quality (Cambardella et al, 1994). If cropping is continued over a period at a time without nutrients being restored to the soil, its fertility will be reduced and crop yields will decline poor soil fertility conceives spare plant cover, which promote erosion vulnerability. This happens becomes 90% of plants available N and S, 50-60% K, 25-30% P and almost 70% of micronutrients residue in organic matter (Stevenson, 1982).

The addition of manure, compost, fertilizer, mulch and lime. Hence, soil testing will determine the current status and provide the information regarding nutrients availability in soil which form the basis for fertility recommendation for maximizing crops yields and further to maintain optimum fertility in the soil year after year.

11. Mr. G.D. Satpute



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Tungstic acid catalysed Knoevenagel condensation: Synthesis of 5-arylidene -2, 4-thiazolidinediones

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ABSTRACT

The Knoevenagel condensation between aromatic aldehyde and 2,4-thiazolidinedione catalysed by solid acid catalyst, tungstic acid is presented. Tungstic acid is heterogeneous, cheaper and reusable catalyst. The resulting products 5-arylidene-2, 4-thiazolidinediones are highly useful for precursors of hypoglycaemic agent.

Keywords: 5-Arylidene-2, 4-thiazolidinedione, heterogeneous, Tungstic acid, Knoevenagel condensation.

I. INTRODUCTION

The Knoevenagel condensation between aromatic aldehyde with active methylene compound is one of the important C-C bond forming reactions in organic synthesis. The reaction is useful in the synthesis of substituted alkenes, α , β -unsaturated nitriles, esters, acids, dyes and polymers.¹⁻⁵

5-Arylidene -2,4-thiazolidinediones are important structural elements in medicinal chemistry and are found to possess significant hypoglycaemic, anti-inflammatory, aldosereductase inhibitor, tyrosine phosphate inhibitor, antihypertensive and anticancer activities. It can act as potentially challenging aldose reductase inhibitors and 15-hydroxyprostaglandin dehydrogenase inhibitor.⁶⁻

⁸Knoevenagel condensation of 5-arylidene- 2, 4 thiazolidione with aldehyde is a key step in synthesis of some clinically used antidiabetic agents like rosiglitazone, englitazone and netoglitazone.⁹⁻¹⁰ 2,4-thiazolidinedione is an active methylene compound which useful in the synthesis of potent antidiabetic compounds as well as other biological active compounds.¹¹

5-Arylidene-2, 4-thiazolidinediones are usually synthesised using different catalysts like ethylenediammonium diacetate,¹² polyethylene

glycol,¹³ ammonium acetate,¹⁴ Thiourea,¹⁵ L-proline,¹⁶ baker's yeast,¹⁷ alum,¹⁸ pyridine,¹⁹ hydrochloric acid,²⁰ ionic liquid²¹ and piperidine.²²

The used of above catalysts having some drawbacks like catalyst not reusable, reaction required longer time period, low yields of the products, tedious work up, therefore there is need to develop new protocol.

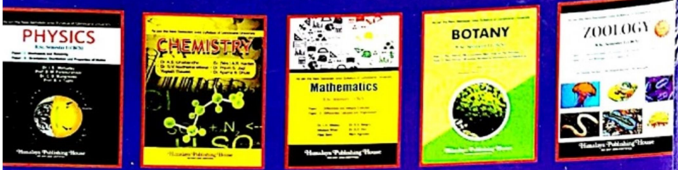
Literature reveals that the Knoevenagel condensation is base catalysed reaction, especially for the synthesis of 5-arylidene-2, 4-thiazolidinediones base is needed, there is no use of acid as a catalyst. In view of this we have attempted first time acid catalysed Knoevenagel condensation for synthesis of 5-arylidene-2, 4-thiazolidinediones.

Tungstic acid used as solid catalyst in organic synthesis for different advantages like recovery and reusability, easy isolation because of insolubility of catalyst in organic solvent. Therefore recyclability of catalyst is possible.²³⁻²⁴

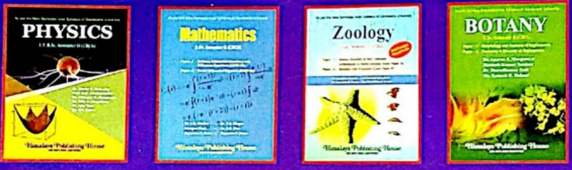
Tungstic acid refers to hydrated forms of tungsten trioxide, WO₃. The simplest form, the monohydrate, is WO₃·H₂O, the dihydrate WO₃·2H₂O is also known. The solid state structure of WO₃·H₂O consists of layers of octahedral coordinated WO₃ (H₂O) units where 4

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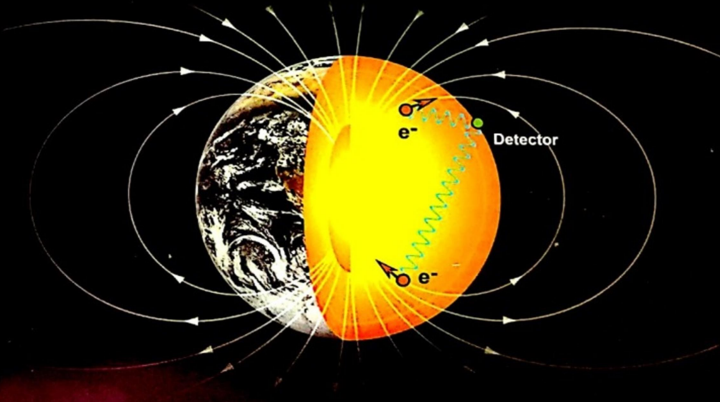
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