



Bharatiya Seva Sadan's
Smt. Radhadevi Goenka College for Women
NAAC Reaccredited Grade B+ with CGPA 2.71
Junior, Senior & Postgraduate Multi Disciplinary College
Affiliated to Sant Gadge Baba Amravati University, Amravati . (M.S.)
(Certified Minority Institution)

*1.3.3. Percentage of students undertaking project work / field work /
internship (Data for the Latest completed academic year)*

**Bachelor of Commerce (B.Com.) Field Work & Project Writing
Program Details, List of Students & Syllabus**

Session: 2020-21



Criterion I : Curriculum Aspects




Estd. 1965

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CERTIFICATE

This is to certify that the documents attached in Criterion I
Curricular Aspects are verified and found correct to the best of my
knowledge.


Dr. Devendra Vyas
Principal
PRINCIPAL
Smt. Radhadevi Goenka College
For Women, AKOLA.

Jr. College - Index 01.01.007 | UDISE - 27050117185 | College Code - 207

Near Neheru Park, Murtijapur Road, Akola 444001

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Smt. Radhadevi Goenka College for Women, Akola

Aims, Goals, Objectives & Outcomes

Environmental Studies

Session: 2020-21

Introduction

Environmental Studies is a compulsory course for all UG Semester IV th year Students. The aim of environmental studies is to develop a world population that is aware of and concerned about the environment and its associated problems and which has the knowledge, Skills, attitudes, motivations and commitment to work individually and collectively towards solutions of current problems and prevention. Environmental education is concerned with those aspects of human behavior which are more directly related to man's interaction with bio-physical environment and his ability to understand this interaction. To create awareness among today's generation on pressing environmental problems, the University Grants Commission (UGC) has made it mandatory for the universities to introduce a course in environmental studies and teach students about the eco-system, pollution and problems concerned with the environment

Aims of Environmental Studies :

- **Learn how to use resources sustainably**
- **Create awareness about preserving the environment**
- **Participate in the mass movement to protect nature**
- **Foster a healthy learning environment**
- **Pursue a full-time career in environment studies**

To sum up the importance of introducing environment studies in course curriculum, the objectives are mainly to help students realize the significance of natural resources and learn to develop solutions to pressing environmental problems. The aim should be developing a world where every individual is aware of and concerned about environmental issues and work towards creating sustainable strategies for the current situation and preventing future problems.

Goals:

- To provide students with a broad interdisciplinary liberal arts framework for understanding the relationship between humans and their environment;
- To provide students with informed perspectives on biological and physical processes relevant to environmental problems, to help students understand responsible environmental policy and practice, and to engage students in ethical reflection regarding environmental problems in local, regional, national, and global communities;
- To prepare students for careers, citizenship and environmental stewardship through experiential curricular and co-curricular opportunities;
- To equip students with the knowledge and skills necessary to pursue professional careers and advanced study related to the multi-faceted nature of environmental studies.

Program Objectives

- Students will integrate knowledge from multiple disciplines representing physical and life sciences perspectives, political and economic perspectives, and social and cultural perspectives on humans' interactions with their environments;

Criterion I : Curriculum Aspects

- Students will contribute to and facilitate interdisciplinary research and problem solving, through independent and collaborative work; and
- Students will use quantitative and qualitative research tools and techniques to analyze, implement, envision, assess, and report sustainability efforts

Learning Outcomes

After completing the Environmental Studies, students will be able to:


- Articulate the interconnected and interdisciplinary nature of environmental studies;
- Gaining in-depth knowledge on natural processes that sustain life and govern economy.
- Demonstrate an integrative approach to environmental issues with a focus on sustainability;
- Developing critical thinking for shaping strategies (scientific, social, economic and legal) for environmental protection and conservation of biodiversity, social equity and sustainable development.
- Understand and evaluate the global scale of environmental problems; and
- Reflect critically on their roles, responsibilities, and identities as citizens, consumers and environmental actors in a complex, interconnected world.
- Predicting the consequences of human actions on the web of life, global economy and quality of human life.
- Acquiring values and attitudes towards understanding complex environmental economic-social challenges, and participating actively in solving current environmental problems and preventing the future ones.
- Adopting sustainability as a practice in life, society and industry


EVS Subject In-Charge

Dr. N. D. Chaudhari

Dr. A. J. Mutthe




Principal
Radhadevi Goenka College
For Women, AKOLA

Criterion I : Curriculum Aspects

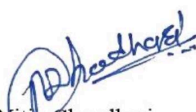



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Environmental Studies Submission Report 2020-21

Environmental Studies is a compulsory subject for all IInd year (Annual) & VIth Semester UG Program. The following Environmental Studies Course enrolled students have successfully completed their project writing report & submitted to the subject teacher.

Sr. No.	Name of the Course
1	B.A. II Semester IV
2	B.Com. II Semester IV
3	B.Sc. (Home Science) II Semester IV
4	B.B.A. II Semester IV
5	B.C.A. II Semester IV


Dr. Nitin Chaudhari
Asst. Prof. & Head
Department of Economics
Smt.R.D.G. College for Women,
Akola


Dr. Devendra Vyas
Principal
Radhadevi Goenka College
For Women, AKOLA

Criterion I : Curriculum Aspects

Bharatiya Seva Sadan's
Smt. Radhadevi Goenka College for Women, Akola
Dept. of Commerce
B.com II Yr Sem. IV (Eng+Mar Medium)
Environmental Studies
Session 2020-21

1	Aamrapali Govinda Tayade
2	Aarti Haribhau Wathore
3	Aarti Nandkishor Sharma
4	Aarti Ramesh Kale
5	Abhilasha Rajkumar Jadhav
6	Achal Anil Chourpagar
7	Achal Ravindra Shelke
8	Aditi Bhanudas Bule
9	Aishwarya Ashwin Sharma
10	Aishwarya Kashinith Kate
11	Aishwarya Rajendra Yadav
12	Akanksha Bhaurao Tayade
13	Alka Sanjay Sonone
14	Anjali Gajanan Pophale
15	Anjali Gajanan Shende
16	Anjali Mahadeo Khanzode
17	Anjali Rahul Janjal
18	Anjali Rajkumar Mishra
19	Ankita Shriram Dandale
20	Ankita Vijay Khapre
21	Ankita Vilas Babar
22	Anuja Ujwal Bang
23	Amusaya Ganesh Jagtap
24	Amushka Anilrao Ratnaparkhi
25	Aparna Jaikant Patil
26	Arati Gajanan Madankar
27	Arpita Shrikrushna Sirsat
28	Arti Haribhau Wathore
29	Arti Nivruti Shegokar
30	Ashwini Nimbaji Bhambere
31	Ashwini Sahadeo Sangokar
32	Bhagyashree Vijay Gawalkar
33	Bharti Rameshwar Navkar

Criterion I : Curriculum Aspects

34	Bhavana Gopal Kale
35	Bhavana Santosh Walkar
36	Bhavika Satish Wankhade
37	Chanchal Hemant Gupta
38	Chanchal Narayan Parnate
39	Chanchal Prabhakar Kale
40	Charmi Bharat Gohel
41	Chhakuli Gajanan Ghose
42	Deepali Brijlal Pinjwani
43	Dhanashri Ratnarao Iche
44	Dhanshri Sunil Pimpalkar
45	Diksha Mahesh Sharma
46	Dipali Pandhari Vairgade
47	Dipali Prabhakar Dambalkar
48	Dipti Rajendrakumar Agrawal
49	Divya Sanjay Raut
50	Divyani Avinash Bansod
51	Divyani Vipin Mirjamle
52	Esha Mohan Gange
53	Esha Ravi Rawale
54	Farhat Anjum Shaikh Hasan Kureshi
55	Fouziya Khanam Ali Raza Khan
56	Gauri Pramod Shende
57	Gayatri Bhaskar Sahare
58	Gayatri Dinesh Mohata
59	Gayatri Ganesh Jadhav
60	Gayatri Narayan Nikore
61	Gayatri Pramod Bobade
62	Gayatri Rajendra Kalmegh
63	Gayatri Santosh Rewaskar
64	Gayatri Vijay Gosavi
65	Gayatri Vikas Pinjarkar
66	Harsha Ramvilas Sharma
67	Harshali Dadarao Kinwatkar
68	Harshata Balkrushna Nimbokar
69	Hemlata Santosh Dhanokar
70	Jyotsna Ashok Rahane
71	Kajal Rajkumar Chawala
72	Kajal Umesh Gawande

Criterion I : Curriculum Aspects

73	Kalyani Ramesh Wadkar
74	Kalyani Shatrughan Sawale
75	Kanchan Vijaykumar Sharma
76	Karishma Panjab Kadam
77	Kausar Anjum Mohd Kabeer
78	Ketaki Janrao Mangulkar
79	Khushi Sanjay Agrawal
80	Kiran Prabhakar Katole
81	Kiran Sanjay Mohale
82	Komal Gajanan Gaud
83	Komal Kamalsingh Rajput
84	Komal Krushnarao Deshmukh
85	Komal Murlidhar Dhanokar
86	Komal Nandkishor Agrawal
87	Komal Ravikumar Dodeja
88	Komal Suresh Surjuse
89	Kumudini Raju Mavakar
90	Laxmi Harish Manglani
91	Laxmi Shankar Mahalle
92	Laxmi Vinod Deshmukh
93	Madhavi Manoj Rawade
94	Madhuri Fulsingh Chandel
95	Madhuri Umesh Kulat
96	Madhuri Vishnu Bhagavat
97	Mamata Balkrushna Tarole
98	Manisha Najukrao Athawale
99	Manisha Vilas Wankhade
100	Mansi Nanakchand Bagdi
101	Mansi Vilas Bharane
102	Mayavati Gulab Pakhare
103	Mayuri Bhairulalji Rathi
104	Mayuri Prakash Bhakt
105	Mayuri Vilas Sontakke
106	Meena Vasanttrao Deshmukh
107	Meghana Thomsen Ramteke
108	Monal Manoj Sharma
109	Monika Santosh Dahale
110	Mukta Nitin Shende
111	Namrata Naresh Randhir

Criterion I : Curriculum Aspects

112	Namrata Rajkumar Kedia
113	Namrata Suresh Nerkar
114	Neha Ananta Dhage
115	Neha Balkrushna Waghmare
116	Neha Gajanan Pawar
117	Neha Narendra Narkhede
118	Neha Vinod Iche
119	Nidhi Ganesh Agrawal
120	Nikita Atul Jambekar
121	Nikita Gajanan Pawar
122	Nikita Ganesh Pandav
123	Nikita Gaynath Ingle
124	Nikita Pradip Gawai
125	Nikita Punjaji Nikame
126	Nikita Rajesh Godle
127	Nikita Suresh Bargal
128	Nisha Shaligram Dhore
129	Nishtha Susheel Agrawal
130	Pallavi Prabhakar Gonsale
131	Pallavi Santosh Gaddekar
132	Pallavi Sitaram Bhawane
133	Pallavi Suresh Kogade
134	Payal Prashant Sonone
135	Payal Raghunath Kamble
136	Payal Subhash Ingle
137	Pooja Gaynath Ingle
138	Pooja Narayan Kurmi
139	Pooja Rajendra Jogi
140	Pooja Ramanlal Agrawal
141	Pooja Suryakant Fandat
142	Pooja Vasudeo Shegaonkar
143	Pooja Vijay Yadav
144	Poonam Shashikant Khedkar
145	Poonam Vilas Shiralkar
146	Prachi Sudhir Hage
147	Prachi Vijay Taori
148	Pradnya Nandu Warangane
149	Pradnya Shivaji Jaulkar
150	Pragati Dinesh Dhadase

Criterion I : Curriculum Aspects

151	Pragati Kailas Punkar
152	Pranali Anil Asambe
153	Pranali Vishwas Kale
154	Pranjali Sanjay Chincholkar
155	Pratiksha Namdev Shahapure
156	Pratiksha Sanjay Ingle
157	Pratiksha Shrikrushna Bhatkar
158	Pratiksha Sunil Wankhade
159	Preeti Anilkumar Shukla
160	Priya Dhammapal Ingole
161	Priya Kailash Yadav
162	Priyanka Digambar Tikar
163	Priyanka Dipaksingh Chavhan
164	Priyanka Raju Sathe
165	Priyanka Sanjay Pathade
166	Priyanka Subhash Kamble
167	Puja Fulchand Belokar
168	Puja Gajanan Pimple
169	Punam Durgasing Daberao
170	Punam Vishnu Saratkar
171	Rachana Sagar Dongare
172	Radha Dipak Meharkar
173	Radhika Narayanrao Chaudhari
174	Radhika Ravindra Sharma
175	Rajnandini Rajendra Date
176	Rakhi Ashok Nilakhe
177	Rani Vishwas Gopnarayan
178	Rasika Sanjay Raut
179	Renuka Pralhad Dhok
180	Richa Manoj Eumulwar
181	Rohini Rameshwar Sarap
182	Roshani Virendra Vishwakarma
183	Ruchita Prakash Nilatkar
184	Rudhira Tushar Deshmukh
185	Rupali Prakash Nilatkar
186	Rutuja Mohan Bhuibhar
187	Saili Sunil Deshmukh
188	Sakshi Anil Bajaj
189	Sakshi Dipak Bakade

Criterion I : Curriculum Aspects

190	Sakshi Gajanan Chopade
191	Sakshi Ganesh Deshmukh
192	Sakshi Jivan Tayade
193	Sakshi Laxman Kathoke
194	Sakshi Mahendra Sharma
195	Sakshi Purushottam Pawar
196	Sakshi Rajesh Kawle
197	Sakshi Sanjay Kandarkar
198	Sakshi Santosh Shirsat
199	Sakshi Santoshrao Deshmukh
200	Sakshi Vijay Rohankar
201	Sakshi Vishnu Tayade
202	Samiksha Mandar Chaudhari
203	Samruddhi Vinod Mule
204	Sanjana Ravi Dubey
205	Sapna Chhotu Kalley
206	Sarika Baliram Lokhande
207	Sayali Balwant Gopnarayan
208	Shital Pralhad Gawhale
209	Shivani Madhukar Katore
210	Shivani Sudhakar Dongre
211	Shivani Sunil Thakare
212	Shubhangi Sahebrao Wankhade
213	Shubhangi Shankar Nawkar
214	Shweta Krishna Dhanekar
215	Siddhi Sanjay Gedam
216	Simran Haji Anis Namakwala
217	Simran Maheshkumar Tolani
218	Sneha Madhukar Gite
219	Snehal Gajanan Mange
220	Snehal Shivshankar Dhole
221	Sonal Arun Arakhras
222	Sonali Haridas Parate
223	Sonali Prabhakar Balkar
224	Sonam Dharmendra Shukla
225	Sonam Raju Sathe
226	Soniya Shivajirao Khedkar
227	Suchita Suresh Kashid
228	Sujata Vijay Dongre

Criterion I : Curriculum Aspects

229	Sushmita Sunilkumar Jaiswal
230	Tanaya Balu Kejgir
231	Tejaswini Himmat Gajbhe
232	Trupti Sanjay Tikar
233	Usha Bandu Dakhore
234	Vaibhavi Pramod Kendarkar
235	Vaishnavi Gajanan Pimple
236	Vaishnavi Ravindra Dhenge
237	Vaishnavi Ashok Bhatkar
238	Vaishnavi Dhananjay Boldhane
239	Vaishnavi Dinesh Bache
240	Vaishnavi Gajanan Chopade
241	Vaishnavi Namdeo Rao Ladole
242	Vaishnavi Rajesh Kamble
243	Vaishnavi Rajesh Pande
244	Vaishnavi Raju Nawale
245	Vaishnavi Ravi Bodade
246	Vaishnavi Ravindra Misurkar
247	Vaishnavi Sanjay Jungade
248	Vaishnavi Sanjay Sarode
249	Vaishnavi Sarang Khodke
250	Vaishnavi Subhash Arulkar
251	Vaishnavi Sunil Bhakare
252	Vaishnavi Sunil Khode
253	Vaishnavi Sunil Lasurkar
254	Vaishnavi Vishvanath Bhatkar
255	Vaishnavi Vitthal Lothe
256	Vishakha Kishor Kalbande
257	Vishakha Satish Potale
258	Vrushali Gajanan Bahakar
259	Vrushali Panjabrao Ghonge

Radha
Head,
Deptt. of Commerce,
Smt. R.D.G. College for
Women, AKOLA

Sant Gadge Baba Amravati University, Amravati

Environmental Studies

B.Com. IVth Sem.

Syllabus

B.Com.Part-II
Examination 2015

Prospectus No.2015152

संत गाडगे बाबा अमरावती विद्यापीठ
SANT GADGE BABA AMRAVATI UNIVERSITY

वाणिज्य विद्याशाखा
(FACULTY OF COMMERCE)

अभ्यासक्रमिका
वाणिज्य स्नातक भाग-२, परीक्षा २०१५
(त्रिवर्षीय अभ्यासक्रम)

PROSPECTUS
of
The B.Com. Part-II Examination 2015
(Three Year Degree Course)



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9. Information Technology & Business Data Processing : Prof.Uday Shrikrushna Kale Shree Sainath Prakashan, Nagpur.

Practical Based on Syllabus :

1. MS-Excel 2003/2007/Higher
2. Tally 9.0/Higher.

Notes: B.Com.II Practical Batch will be of 20 students.

SCHEME

Year	Paper	Total Marks		Min.Passing Marks	
		T	P	T	P
B.COM.II	Information Technology and Business Data Processing.	60	*40	21	14

***Division of Marks for Practical**

Record preparation	10 Marks
Practical	15 Marks
Discription	10 Marks
Viva	<u>05 Marks</u>
TOTAL ..	40 Marks

(Use Answer Book for practical provided by the University)

**SYLLABUS FOR
ENVIRONMENTAL STUDIES
AT BACHELOR DEGREE LEVEL**

Total Marks : 100

PART-A

SHORT ANSWER PATTERN

25 Marks

1. The Multidisciplinary nature of environmental studies

- . Definition, scope and importance.
- . Need for public awareness. (2 lecture hours)

2. Social Issues and the Environment

- . From Unsustainable to Sustainable development
- . Urban problems related to energy
- . Water conservation, rain water harvesting, watershed management
- . Resettlement and rehabilitation of people; its problems and concerns.

Case studies.

- . Environmental ethics : Issues and possible solutions.
- . Climate change, global warming, acid rain, ozone layer depletion, nuclear accidents and holocaust. Case studies.
- . Wasteland reclamation.
- . Consumerism and waste products.
- . Environment Protection Act.
- . Air (Prevention and Control of Pollution) Act.
- . Water (Prevention and Control of Pollution) Act.
- . Wildlife Protection Act.
- . Forest Conservation Act.
- . Issues involved in enforcement of environmental legislation.
- . Public awareness. (7 lecture hours)

3. Human Population and the Environment

- . Population growth, variation among nations.
- . Population explosion - Family Welfare Programme.
- . Environment and human health.
- . Human Rights.
- . Value Education.
- . HIV / AIDS.
- . Women and Child Welfare.
- . Role of Information Technology in Environment and human health.
- . Case Studies. (6 lecture hours)

PART-B

ESSAY TYPE WITH INBUILT CHOICE 50 Marks

4. Natural resources :

- . **Renewable and non-renewable resources :**
 - . Natural resources and associated problems.
 - Forest resources : Use and over exploitation, deforestation, case studies. Timber extraction, mining, dams and their effects on forests and tribal people.
 - Water resources : Use and over-utilization of surface and ground water, floods, drought, conflicts over water, dams-benefits and problems.
 - Mineral resources : Use and exploitation, environmental effects of extracting and using mineral resources, case studies.
 - Food resources : World food problems, changes caused by agriculture and overgrazing, effects of modern agriculture, fertilizer - pesticide problems, water logging, salinity, case studies.
 - Energy resources : Growing energy needs, renewable and

non renewable energy sources, use of alternate energy sources, Case studies.

- Land resources : Land as a resource, land degradation, man induced landslides, soil erosion and desertification.
- . Role of an individual in conservation of natural resources.
- . Equitable use of resources for sustainable lifestyles.(8 lecture hours)

5. Ecosystems

- . Concept of an ecosystem.
- . Structure and function of an ecosystem.
- . Producers, consumers and decomposers.
- . Energy flow in the ecosystem.
- . Ecological succession.
- . Food chains, food webs and ecological pyramids.
- . Introduction, types, characteristic features, structure and function of the following ecosystem :-
 - Forest ecosystem
 - Grassland ecosystem
 - Desert ecosystem
 - Aquatic ecosystems (ponds, streams, lakes, rivers, oceans, estuaries) (6 lecture hours)

6. Biodiversity and its conservation

- . Introduction - Definition : genetic, species and ecosystem diversity.
- . Biogeographical classification of India.
- . Value of biodiversity : consumptive use, productive use, social, ethical, aesthetic and option values.
- . Biodiversity at global, National and local levels.
- . India as a mega-diversity nation.
- . Hot-spots of biodiversity.
- . Threats to biodiversity : habitat loss, poaching of wildlife, man-wildlife conflicts.
- . Endangered and endemic species of India.
- . Conservation of biodiversity : In-situ and Ex-situ conservation of biodiversity. (8 lecture hours)

7. Environmental Pollution

- . Definition
- . Causes, effects and control measures of :-
 - Air pollution
 - Water pollution
 - Soil pollution
 - Marine pollution
 - Noise pollution
 - Thermal pollution

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- Nuclear hazards
 - . Solid Waste Management : Causes, effects and control measures of
 - . Role of an individual in prevention of pollution.
 - . Pollution case studies.
 - . Diaster management : floods, earthquake, cyclone and landslides.
- (8 lecture hours)

PART-C
ESSAY ON FIELD WORK

25 Marks

8. Field work

- . Visit to a local area to document environmental assets - river / forest / grass land / hill / mountain
 - . Visit to a local polluted site - Urban / Rural / Industrial / Agricultural
 - . Study of common plants, insects, birds.
 - . Study of simple ecosystems - pond, river, hill slopes, etc.
- (5 lecture hours)

- (Notes : i) Contents of the syllabys mentioned under paras 1 to 8 shall be for teaching for the examination based on Annual Pattern.
- ii) Contents of the syllabys mentioned under paras 1 to 4 shall be for teaching to the Semester commencing first, and
- iii) Contents of the syllabys mentioned under paras 5 to 8 shall be for teaching to the Semester commencing later.

LIST OF REFERENCES :-

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- 2) Bharucha Erach, The Biodiversity of India, Mapin Publishing Pvt. Ltd., Ahmedabad - 380 013, India, Email : mapin@icenet.net (R)
- 3) Brunner R.C., 1989, Hazardous Waste Incineration, McGraw Hill Inc. 480p.
- 4) Clark R.S., Marine Pollution, Clanderson Press Oxford (TB)
- 5) Cunningham, W.P.Cooper, T.H.Gorhani, E & Hepworth, M.T., 2001, Environmental Encyclopedia, Jaico Publ. House, Mumbai, 1196p.
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- 7) Down to Earth, Centre for Science and Environment (R)

Criterion I : Curriculum Aspects

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 - 9) Hawkins R.E., Encyclopedia of Indian Natural History, Bombay Natural History Society, Mumbai **(R)**
 - 10) Heywood, V.H. & Watson, R.T. 1995, Global Biodiversity Assessment, Cambridge Univ. Press 1140p
 - 11) Jadhav, H & Bhosale, V.M. 1995, Environmental Protection and Laws, Himalaya Pub. House, Delhi. 284 p.
 - 12) McKinney, M.L. & Schoch, R.M. 1996, Environmental Science Systems & Solutions, Web Enhanced Edition. 639 p.
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 - 22) Wagner K.D., 1998, Environmental Management, W.B.Saunders Co., Philadelphia, USA 499p.
 - 23) Dr.Deshpande A.P., Dr. Chudiwale A.D., Dr.Joshi P.P. & Dr. Lad A.B.: Environmental Studies -Pimpalpure & Co. Publishers, Nagpur.
 - 24) डॉ.विठ्ठल घारपुरे : पर्यावरणशास्त्र - पिंपळापुरे अँड कंपनी पब्लिशर्स, नागपूर.
 - 25) Environmental Studies : R. Rajagopalan, Oxford University Press, New Delhi- 2005
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- (M) Magazine**
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