

**Government College of Engineering, Amravati**  
(An Autonomous Institute of Government of Maharashtra)

**Second Semester B. Tech. (All Branches)**

Summer – 2017

16002025

Course Code: SHU203

Course Name: Environmental Studies

Time: 2 Hrs. 30 Min.

Max. Marks: 60

**Instructions to Candidate**

- 1) All questions are compulsory.
- 2) Assume suitable data wherever necessary and clearly state the assumptions made.
- 3) Diagrams/sketches should be given wherever necessary.
- 4) Figures to the right indicate full marks.

- 1 Write the short note on
- a) Multidisciplinary nature of environmental studies 03
  - b) Biogas 03
  - c) Solar Energy 03
  - d) Food chain 03

- 2
- a) Define Environment and Explain the need for public awareness about the environment 04
  - b) Discuss the structure and function of Ecosystem 04

OR

- b) Describe the energy flow in an ecosystem 04
- c) Endangered and Endemic species of India 04

- 3 a) How do you justify India as a Mega diversity nation? Explain. 04
- b) What is ecological pyramid? Explain various types of ecological pyramids 04
- OR
- b) What is water conservation? How can we conserve water in domestic areas and Industrial areas 04
- c) What are the reasons behind depletion of ozone layer in the atmosphere? Explain the ill-effects of ozone depletion. 04
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- 4 a) Explain the problems of resettlement and rehabilitation of peoples 04
- b) Explain the role of information technology in Human health. 04
- OR
- b) What are Natural Resources? How will you classify natural resources? 04
- c) What is the effect of water pollution on human beings, animals and plants? 04
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- 5 a) Explain in detail about the concept of disaster management 04
- OR
- a) What is sustainable development .Discuss the concept with case study? 04
- b) Ex-situ conservation and In-situ conservation of Biodiversity 04
- c) Define the air pollution. Give the examples of air pollution 04





	b)	Describe renewable energy sources with example	4
	c)	Discuss the major environmental impact of mineral extraction.	3
	d)	What is Soil erosion? How can it be checked?	4
		OR	
	d)	Describe Desert ecosystem.	4
Q.3	a)	Define Biodiversity. Explain genetic diversity, species diversity and ecosystem diversity.	5
	b)	What is Noise pollution? What are the sources and effect of noise pollution? How can noise pollution be controlled?	4
	c)	Short note on (any two) 1) Food chain 2) Grass land ecosystem. 3) Disposal of waste. 4) Water prevention and control act.	6
Q.4	a)	Discuss the way in which land is degradable. Suggest steps to check land degradation.	4
	b)	What are the uses of various types of minerals?	3



c)	What are major issues and problem related to Rehabilitation of the displaced tribals? Discuss in the light of some case.	4
d)	What is global warming? Discuss the causes and effect of global warming.	4