

Environmental Studies

December 16

First Year (Semester 1)

Total marks: 60 Total time: 2 Hours

INSTRUCTIONS
(1) Question 1 is compulsory.
(2) Attempt any three from the remaining questions.
(3) Draw neat diagrams wherever necessary.

1. Attempt any five from following .-

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- a) What is sustainable development? Why there is a need for sustainable development?
- b) Differentiate between Renewable and Non Renewable sources of energy.
- c) What are the causes and effects of E-pollution?
- d) Write important functions of Central pollution Control Board (CPCB)
- e)Explain concept of Carbon Credit
- f) What is Nuclear pollution? What are its sources and effects?
- g) What is Ecological Succession?

2. a) Explain Social and Economic aspects of sustainable development.	5
b) Draw a neat labelled diagram of Electrostatic Precipitator and explain how it	
is useful to control gaseous particulate emissions?	5
c) What is Hydropower? draw suitable diagram and explain how hydropower is	
generated.	5
3. a) What is solid waste? Explain solid waste management by incineration.	5
b) Write important functions and powers of State Pollution Control Board.	5
c) Write a case study on Cloudburst and Landslides at Kedarnath in June 13	5



Q4 a) 5	Explain global environmental crisis pertaining to population.	
b)	EXplain environmental consent and authorization mechanism.	5
c)	Draw a neat diagram of wind turbine and explain how it helps in energy	
р	roduction	5
Q5. a) Explain how resource utilization as per carrying capacity is an important		
	control measure for sustainable development.	5
	b) Write a case study on pollution of Ganga River.	5
	c) Draw a schematic and explain the principle and working of photovoltaic cells.	5
Q6.	a) Explain the causes and effects of depletion of natural water resources.	5
	b) Write a note on industrial waste water treatment.	5
	c) What is Disaster Management? Explain how techniques of disaster	
	management are implemented in the event of an earthquake.	5