



Environmental Studies

DEC 18

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.

Q.1 Answer any five from the following:-

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- a) What are reasons for the depletion of soil resources?
- b) Explain principle involved in working of photovoltaic cells.
- c) Write a brief note on Noise Pollution.
- d) Define 'Sustainable Development'. Why there is need for sustainable development?
- e) Explain the term — 'carbon credits'.
- f) What are the sources and consequences of Greenhouse effect?
- g) Why there is need for public awareness on environmental educ

Q.2 a) Write important features of case study on Narmada Bachado Andolan , took place in Gujarat in 1980.

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b) Draw flow sheet diagram and explain the process of industrial waste water treatment.

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c) Draw a schematic of flat plate collector and explain its role in trapping solar energy.

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Q.3 a) Give brief account of case study on London smog occurred in U.K. in December, 1952.

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b) Write a brief note on environmental clearance and authorization mechanism.

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c) Write the effects produced by different Indoor Air Pollutants.

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- Q.4 a) What is ecological succession? What is its impact? 5
- b) Write important powers and functions of State Pollution Control Board (SPCB). 5
- c) Draw a neat labelled diagram and explain the process of generating electricity from geothermal energy. 5
- Q5 a) Explain Economic environmental aspects associated with sustainable development. 5
- b) Draw a neat diagram and explain working of Venturi Scrubber. 5
- c) Draw a neat schematic and explain the process of hydropower generation. 5
- Q6a) Explains and effects of depletion of our natural forest resources. 5
- b) How solid management is carried out by composting? 5
- c) Explain the objectives of 'Green Building'. 5