

[Time: 2 Hours]

[Marks:60]

Please check whether you have got the right question paper.

- N.B:
1. Question.No.1 is **compulsory**.
 2. Attempt any **three** questions from **Q. 2 to Q. 6**.
 3. Draw neat labelled **diagrams** wherever applicable.
 4. Figures to right indicate **full marks**.

Q.1 Answer any five from the following:-**15**

- 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 education.

Q.2

- a) Write important features of case study on Narmada Bachao Andolan, took place in Gujarat in 1980. **5**
- b) Draw flow sheet diagram and explain the process of industrial waste water treatment. **5**
- c) Draw a schematic of flat plate collector and explain its role in trapping solar energy. **5**

Q.3

- a) Give brief account of case study on London smog occurred in U.K. in December, 1952. **5**
- b) Write a brief note on environmental clearance and authorization mechanism. **5**
- c) Write the effects produced by different Indoor Air Pollutants. **5**

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**

Q.5

- a) Explain Economic and 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**

Q.6

- a) Explain the reasons and effects of depletion of our natural forest resources. **5**
- b) How solid waste management is carried out by composting? **5**
- c) Explain the objectives of 'Green Building'. **5**