[Time: 2 Hours]

Please check whether you have got the right question paper.

2. Attempt any three questions from Q. 2 to Q. 6.

1. Question. **No.1** is **compulsory**.

[Marks:60]

3. Draw neat labelled **diagrams** wherever applicable. 4. Figures to right indicate full marks. 15 **Q.1** Answer any five from the following:-What are reasons for the depletion of soil resources? a) Explain principle involved in working of photovoltaic cells. b) Write a brief note on Noise Pollution. Define 'Sustainable Development'. Why there is need for sustainable development? Explain the term – 'carbon credits'. e) f) What are the sources and consequences of Greenhouse effect? Why there is need for public awareness on environmental education. g) **Q.2** Write important features of case study on Narmada Bachao Andolan, took place in Gujarat in 5 a) Draw flow sheet diagram and explain the process of industrial waste water treatment. 5 **b**) 5 Draw a schematic of flat plate collector and explain its role in trapping solar energy. **Q.3** Give brief account of case study on London smog occurred in U.K. in December, 1952. 5 **a**) Write a brief note on environmental clearance and authorization mechanism. 5 **b**) Write the effects produced by different Indoor Air Pollutants. 5 c) **Q.4** What is ecological succession? What is its impact? 5 **a**) Write important powers and functions of State Pollution Control Board (SPCB). 5 **b**) Draw a neat labelled diagram and explain the process of generating electricity from geothermal energy. **Q.5** 5 Explain Economic and Environmental aspects associated with sustainable development. **b)** Draw a neat diagram and explain working of Venturi Scrubber. 5 Draw a neat schematic and explain the process of hydropower generation. 5 0.6 a) Explain the reasons and effects of depletion of our natural forest resources. 5 5 **b)** How solid waste management is carried out by composting? Explain the objectives of 'Green Building'. 5

N.B: