

[Time: 2 Hours]

[Marks:60]

Please check whether you have got the right question paper.

- N.B:**
1. Question number 1 is compulsory.
 2. Attempt any three questions from Q.2 to Q.6.
 3. Draw neat labelled diagrams wherever necessary.
 4. Figures to right indicate full marks.

- Q.1** Attempt any five from the following:- 15
- a) What is ecological pyramid?
 - b) What are reasons and effects of global warming?
 - c) Explain the concept of 'sustainable development'.
 - d) Explain only working principle of photovoltaic cells.
 - e) Why disaster management is important?
 - f) Write important functions of 'State Pollution Control Board' (SPCB).
 - g) Write causes and effects of acid-rain.
- Q.2**
- a) Write social and economic aspects of sustainable development. 5
 - b) What are the sources of noise pollution? Why is it bad? What measure can be taken in its prevention? 5
 - c) Draw a neat labelled diagram and explain briefly the process of generating hydropower. 5
- Q.3**
- a) Briefly explain how industrial waste water treatment is carried out? 5
 - b) When environmental clearance is required to be taken? Why is it important? 5
 - c) Explain how technology can contribute for better environment and human health. 5
- Q.4**
- a) What are the global environmental problems pertaining to population? 5
 - b) Write important features of 'Environmental Protection Act'. 5
 - c) Draw a suitable diagram and explain how electricity is generated from wind energy. 5
- Q.5**
- a) Explain any one control measure to achieve sustainable development. 5
 - b) Draw a neat diagram of bag house filter explain its working and role in prevention of pollution. 5
 - c) Differentiate between: - Conventional and Non-conventional sources of energy. 5
- Q.6**
- a) What are the reasons for depletion of minerals resources? What will be its future impact? 5
 - b) Explain how solid waste management is done by means of landfilling. 5
 - c) Explain briefly the concept of carbon credits. 5
