

(2 Hours)

[Total Marks : 60]

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

1. Attempt any five of the following :—

- (a) How environmental education is essential for sustainable development? 15
 (b) What are the stationary and mobile sources of air pollution?
 (c) What are the functions and powers of Central Pollution Control Board (CPCB)?
 (d) Explain the term : 'Carbon Credit'.
 (e) What are the conventional sources of energy? and
 What are their advantages and limitations?
 (f) What is ecological pyramid? How energy flows across pyramid?
 (g) What are the reasons of Ozone layer depletion? What are its effects?
2. (a) Explain economic and environmental aspects of sustainable development. 5
 (b) Draw a neat diagram and explain working of bag house filter. 5
 (c) Draw a neat diagram and explain working of photovoltaic cell. 5
3. (a) Outline important features of environmental clearance and authorization mechanism. 5
 (b) Discuss how the techniques of disaster management are implemented at the time of Tsunami? 5
 (c) Write briefly about Minamata disease in Japan. 5
4. (a) What are the global environmental problems pertaining to sanitation and land? 5
 (b) Describe briefly the important features of environmental protection act. 5
 (c) Draw a neat labelled diagram and explain how is it possible to obtain electricity from geothermal energy. 5
5. (a) Explain why resource utilization as per carrying capacity of earth is important for sustainable development. 5
 (b) What are the causes and effects of acid-rain? 5
 (c) What is Hydel energy? How hydropower generation is carried out? 5
6. (a) What are the reasons for depleting nature of our mineral resources? 5
 (b) Explain how industrial waste water treatment is carried out? 5
 (c) What is Indoor Air Pollution? 5
 List indoor air pollutants and explain their effects on human health.