

(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.