

QP Code : 5031

(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.