

(2 Hours)

(Total Marks : 60)

- N.B.:** (1) All questions are **compulsory**.  
 (2) Draw **neat diagrams** wherever **necessary**.  
 (3) **Figures** to the **right** indicate **full marks**.

Q.1 Attempt **any five** from the following:-

15M

- Define soil depletion. Give the classification of ecosystem.
- Define pollution. State any four sources of soil pollution.
- Give the functions (any six) of state pollution control board.
- Define and give any four objectives of Green building.
- Define geothermal energy. Draw a neat and labeled diagram of steam turbine power plant.
- Define and give any four limitations of conventional sources of energy.
- Define land pollution. State any two sources of soil pollution. Give any two adverse effects of soil pollution.

Q.2 Attempt the following:-

15M

- Give the reasons and consequences of cloudburst and landslides at Kedarnath. 4M
- Define noise pollution. State any four sources of noise pollution. State any four bad effects of noise pollution. Give the reactions taking place in the environment during acid rain. 5M
- Draw a neat and labeled diagram of electrostatic precipitator used for purification of air pollutants. Give the principle involved in electrostatic precipitator. Give any two advantages and disadvantages of electrostatic precipitator. 6M

Q.3 Attempt the following:-

15M

- Define indoor air pollution. State any four sources of indoor air pollution. State any four bad effects of indoor air pollution. 5M
- Draw neat and labelled diagram for solar heater. Give the principle involved in solar heater. Give the working of solar heater. 5M
- What is the meaning of sustainable development? Give any four social and economical aspects of sustainable development. 5M

Q.4 Attempt the following:-

15M

- Give the importance of environmental education. How does Biomass and energy flow are related in ecological pyramid? 4M

- (b) Draw a neat and labeled diagram of solar cell. Give the principle involved in solar cell. Give the construction of solar cell. Give any two advantages and disadvantages of solar cell. 6M
- (c) Explain the concept of control measures through the concept of Recover. Give the advantages and disadvantages of such program. 5M

Q.5 Attempt the following:- 15M

- (a) Define wind energy. Give the principle involved in wind turbines. Give any two advantages and disadvantages of wind energy. Give the construction of wind turbine. 6M
- (b) Explain the case study of boiler blast tragedy in Dombivli MIDC. 4M
- (c) Define water pollution. State any four sources of water pollution. State any four bad effects of water pollution. 5M

Q.6 Attempt the following:- 15M

- (a) Give the importance of environmental education from environmental degradation. Give the causes of depletion of natural water resources. Define photochemical smog. State any four sources of photochemical smog. State any four bad effects of photochemical smog. 5M
- (b) four bad effects of photochemical smog. 6M
- (c) Explain the case study of earthquake in Latur. 4M