



Environmental Studies (EVS)

May 19 (CBCGS)

First Year (Semester 1)

Total marks: 80

Total time: 3 Hours

INSTRUCTIONS

(1) Question 1 is compulsory.

*(2) Attempt any **three** from the remaining questions.*

(3) Draw neat diagrams wherever necessary.

Q.1 Attempt any five from the following:- 15M

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

Q.2 Attempt the following:- 15M

- (a) Give the reasons and consequences of cloudburst and landslides at Kedarnath. 4M*
- (b) 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*
- (c) 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

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

Q.4 Attempt the following:- 15M

- (a) 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 Dombivali 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. 5M
- (b) Define photochemical smog. State any four sources of photochemical smog. State any four bad effects of photochemical smog. 6M
- (c) Explain the case study of earthquake in Latur. 4M