

Bachelor of Science (B.Sc.) (Part-II) Fourth Semester
B.Sc. 2491 - Environmental Science Paper-I (Pollution Control Technologies-II)

P. Pages : 2

Time : Three Hours



GUG/W/18/1290

Max. Marks : 50

- Notes :
1. All questions are compulsory and carry equal marks.
 2. Illustrate the answers with suitable diagrams and examples.

1. With suitable sketch explain construction and working of electrostatic precipitator. 10

OR

Define thermal pollution. Explain pre-combustion and post-combustion techniques for coal fired thermal power plants.

2. Discuss dilution and dispersal, Concentrate and contain methods for disposal of radioactive waste. 10

OR

Explain soil flushing and soil vapour extraction methods for remediation of soil.

3. a) Explain adsorption methods for gaseous pollutant control. 2½
- b) Discuss methods of restoration of lakes. 2½
- c) How personal protection can be done to avoid noise pollution? Explain. 2½
- d) Discuss phytoremediation method of pesticide pollution control. 2½

OR

- e) Explain, how pollution prevention can be done through change in raw material. 2½
- f) Discuss process of sedimentation. 2½
- g) Write methods of reducing highway noise. 2½
- h) Discuss mode of action of biopesticides. 2½
4. a) Explain present zoning practices of industries in India. 2½
- b) Discuss process of coagulation. 2½
- c) How noise can be controlled at source? Explain. 2½
- d) Write about integrated pest management. 2½

OR

- e) Explain flue gas desulfurization method. 2½
- f) Discuss process of disinfection of water. 2½
- g) Explain the principles and methods of first aid. 2½
- h) Write about integrated nutrient management. 2½

5. Answer in two-three lines **any ten.** **10**

- a) Write full form of MIC.
- b) What is IPCC?
- c) What are euro norms?
- d) Give uses of fly ash.
- e) What are suspended solids?
- f) What is in-situ bio-remediation?
- g) Explain the ways for control of occupation radiation.
- h) How x-ray hazards can be minimized?
- i) How personal safety from illumination can be done?
- j) What are neembitters?
- k) What is soil washing?
- l) Explain briefly thermal desorption of pesticides.
