

B.Sc.(Part-II)(With Credits)-Regular-Semester 2012 Sem IV
B.Sc. 2491 - Environmental Science Paper-I (Pollution Control Technologies)

P. Pages : 2

Time : Three Hours



GUG/W/16/5604

Max. Marks : 50

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

1. Discuss in brief the construction and working of fabric filter. **10**

OR

Discuss cleaner technologies for coal fired thermal power plants w.r.t. precombustion, combustion and post combustion techniques.

2. Describe noise pollution control measures by using noise barriers, mufflers and vibration isolation. **10**

OR

Discuss in brief the soil pollution control w.r.t. integrated nutrient management, integrated pest management.

3. a) Give general classification of industries. **2½**
b) What are the impurities in water? **2½**
c) How earplugs and earmuffs are effective to protect personal from excessive noise? **2½**
d) What measures are adopted for reclamation of degraded lands by pesticide pollution? **2½**

OR

- e) Explain the working of gravitational settling chamber.
f) Briefly explain the process of sedimentation.
g) Write a brief note on personal safety from illumination.
h) Explain unique multifactor action of neembitters.
4. a) Draw a neat sketch of packed tower and explain its working. **2½**
b) Explain conventional pump and treat system as ground water pollution remedial technology. **2½**
c) Write a brief note on control of occupational radiation. **2½**
d) Describe chemical methods for controlling pesticide pollution. **2½**

OR

- e) Describe method of flue gas desulfurization.
- f) Explain the principle of coagulation.
- g) What precautions should be taken to handle overhead equipments?
- h) Briefly explain manufacturing process of biopesticide.

5. Answer in 2-3 lines **any ten.**

10

- a) What is Zoning criteria?
- b) Mention wet collecting devices to control particulates.
- c) What is the full form of IPCC?
- d) Which nutrients are enriched to control oil pollution?
- e) What is permeable reactive barrier?
- f) Which agents are used for disinfection of water?
- g) State principle of first aid.
- h) Give objectives of occupational health plan.
- i) Why safety education is necessary?
- j) What is thermal desorption?
- k) What is soil flushing?
- l) What is phytoremediation?
