

Bachelor of Science (B.Sc.) Semester-VI (CBS) Examination
WATER POLLUTION : MONITORING AND MANAGEMENT
Paper-1
(Environmental Science)

Time : Three Hours]

[Maximum Marks : 50

N.B. :— (1) All questions are compulsory and carry equal marks.

(2) Illustrate your answer with suitable example and diagram.

1. List any four different types of water pollutants. Discuss primary source of each type. 10

OR

(a) What does BOD stand for ? What does this parameter indicate about waste water quality ? 5

(b) Discuss the speciation of cadmium. 5

2. Express your views on eutrophication of lake, a pollution problem. 10

OR

(a) What are the effects of oil pollution in marine water ? 5

(b) Write informative note on oxygen sag curve. 5

3. Discuss the significance of clean technology for coal fired power plants. 10

OR

(a) What are long term impacts of thermal pollutants on water quality ? 5

(b) Write on note on cooling towers. 5

4. Write an essay on risks and benefits of radiation. 10

OR

(a) Define radioactive fallout. Explain briefly the mechanism of fallout. 5

(b) Give characteristic features of a nuclear reactor. 5

5. Write in short (Attempt any **TEN**) :

(a) Define COD.

(b) Explain Minamata epidemic.

(c) What are heavy metals ?

(d) How are the zones of pollution of a lake water body classified ?

(e) Name the factors affecting self purification.

(f) What do you understand by oil spills ?

(g) What are the main factors which are responsible for damage of biotic organism ?

(h) What are the hazards created by fly ash ?

(i) What is the composition of fly ash ?

(j) Define ionizing radiation.

(k) What are the units of radiation ?

(l) Classify the radioactive wastes produced in nuclear industry. 1×10=10