

Indian Institute of Engineering Science and Technology, Shibpur
B.Tech. 1st Semester (Gr-I/II/III/IV) Mid-Semester Examinations, February 2022
CE1101: Ecology and Environment

Full Marks: 30

Time: 45 Minutes

Upload First Half and Second Half answer scripts in two separate Files

FIRST HALF

Answer any two from the following

1. a) What are the different air pollutants? Mention about their individual sources.
b) Explain Acid rain, its source and different impacts?
(4+6=10)

2. a) What is PM_{2.5} and PM₁₀? Which one is more harmful and why?
b) Explain Global Warming, and its environmental impact?
(5+5=10)

3. Discuss probabilistic approach of Risk Estimation
(10)

SECOND HALF

Answer any one from the following

4. a) Classify different physical water quality parameters.
b) Describe source, effect and environmental significance of turbidity.
c) Describe source, effect and environmental significance of suspended matter.
(2+4+4)=10

5. (a) A water sample has total alkalinity=500 mg/L as CaCO₃ and Phenolphthalein alkalinity =200 mg/L as CaCO₃. Find the alkalinity species present and their concentrations.
(b) Define and explain the terms BOD and COD
(c) Describe use of alkalinity data in water and wastewater treatment.
(2+4+4)=10