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Total No. of Printed Pages: 1

Total No. of Questions: [09]

B. Sc. (IT) (Semester – 3rd)
ENVIRONMENTAL POLLUTION
Subject Code: BCIE0F91
Paper ID: [OEI130412]

Time: 03 Hours

Maximum Marks: 60

Instruction for candidates:

1. Section A is compulsory. It consists of 10 parts of two marks each.
2. Section B consist of 5 questions of 5 marks each. The student has to attempt any 4 questions out of it.
3. Section C consist of 3 questions of 10 marks each. The student has to attempt any 2 questions.

Section – A

(2 marks each)

Q1. Attempt the following:

- a. Define lapse rate and adiabatic lapse rate.
- b. What do you understand by point line and volume sources?
- c. Define particulate matter and its types.
- d. What is the unit for noise measurement? Give its technical definition.
- e. Define and explain sound pressure.
- f. Differentiate between BOD and COD.
- g. Define “Acid Rain” and its impacts on the environment.
- h. What do you understand by Ozone depletion?
- i. What are greenhouse gases and their impact on the environment?
- j. What do you mean by EIA report?

Section – B

(5 marks each)

- Q2. What are the meteorological factors for air pollution? Explain in detail.
- Q3. Define water pollutant and classify different types of water pollutants.
- Q4. Describe in detail detrimental impacts of noise pollution, preventive methods and control measures for noise pollution.
- Q5. What are the interrelated or series effects of Global warming? Explain in detail with examples.
- Q6. Explain functions of CPCB and state pollution control boards.

Section – C

(10 marks each)

- Q7. What are air pollution dispersion models? Derive and explain in detail point source based Gaussian plume model, its features, advantages and disadvantages and different equations for plume center line and other cases.
- Q8. What are the methods for noise measurement? Describe power and intensity of noise and its measuring unit. Explain frequency band and effects and control methods for vibration control.
- Q9. Explain the reasons for ozone depletion, acid rain and global warming. Give the resultant effects, prevention and control strategies and measures for these environmental issues.