Roll No…….. **Total No. of Printed Pages: 1**

Total No. of Questions: [09]

B. Tech (ECE) (Semester – 5th)

ENVIRONMENTAL POLLUTION

Subject Code: BCIE0F91

Paper ID: [OE1111312]

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) Enlist the causes of air pollution.

b) Define land pollution.

c) List out the causes of Refinery Fires.

d) Define DOW fire index.

e) Differentiate between BOD and COD.

f) What do you understand by Occupational health hazards?

g) What is noise pollution?

h) What is the difference between onshore and offshore drilling?

i) What is the significance of Oil Mines Regulation Act in India?

j) Define palnt and equipment.

Section – B **(5 marks each)**

Q2. Describe the hazardous materials in relation to petroleum industry.

Q3. What are the components of fire? How is fire classified?

Q4. Discuss the types of sewage with examples.

Q5. Comment on the safety aspects to be followed during drilling operations.

Q6. Explain the importance and limitation of initial planning zone.

Section – C **(10 marks each)**

Q7. Describe HAZOP analysis. What are the Stages of a HAZOP Study?

Q8. What are the characteristics of wastewater? Describe a Municipal Wastewater Treatment System.

Q9. What is an Emergency Response Plan? What are the key components of an Emergency Response Plan?