

Total No. of Questions : 10]

SEAT No. :

**P3992**

**[4959]-1174**

[Total No. of Pages : 2

**B.E. (Chemical)**

**ENVIRONMENTAL ENGINEERING**

**(2012 Course) (Semester - I) (Elective - I) (409344A)**

*Time : 2½ Hours]*

*[Max. Marks : 70*

*Instructions to candidates:*

- 1) Answer any 5 questions.*
- 2) Neat diagrams must be drawn wherever necessary.*
- 3) Assume suitable data, if necessary.*
- 4) Use of logarithmic tables slide rule, Mollier charts, electronic pocket calculator and steam tables is permitted.*

**Q1)** Define air pollution standards and discuss effect of particulate matter on vegetation. **[10]**

OR

**Q2)** Discuss the environmental impact of thermal energy. **[10]**

**Q3)** Explain the MPCB standards for PM. **[10]**

OR

**Q4)** Explain sampling train. **[10]**

**Q5)** Explain the Spray Tower with neat figure. **[16]**

OR

**Q6)** Explain the removal of Nox by dry method with neat labeled figure. **[16]**

**Q7)** Explain the effect of water pollutants. **[18]**

OR

**P.T.O.**

**Q8)** Discuss Oxygen Sag curve and derive Streeter Phelps Equation. **[18]**

**Q9)** What is Photo catalytic reactor? Explain the industrial use of it. **[16]**

OR

**Q10)** How to recover materials from waste? Explain with suitable example. **[16]**

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