

Total No. of Questions : 6]

SEAT No. :

**P54**

[Total No. of Pages : 2

**APR - 18/BE/Insem. - 6**

**B.E. (Civil Engineering)**

**AIR POLLUTION AND CONTROL**

**(Elective - III) (2012 Course) (Semester - II)**

*Time : 1 Hour]*

*[Max. Marks : 30*

*Instructions to the candidates:*

- 1) *Solve Q1 or Q2, Q3 or Q4, Q5 or Q6.*
- 2) *Neat diagrams must be drawn wherever necessary.*
- 3) *Figures to the right indicate full marks.*
- 4) *Use of logarithmic tables, slide rule, mollier charts, electronic pocket calculator and steam tables are allowed.*
- 5) *Assume suitable data, if necessary.*

**Q1) a)** What are the scales of meteorology? Explain. **[6]**

b) Explain looping plume behavior with a neat sketch. **[4]**

OR

**Q2) a)** What are the zones of atmosphere? Explain Ionosphere and stratosphere. **[6]**

b) What do you understand by stability of the atmosphere? Explain stable atmosphere. **[4]**

**Q3) a)** Explain the purpose of ambient air sampling and stack gas sampling. **[6]**

b) Explain iso kinetic sampling with a neat sketch. **[4]**

OR

**Q4) a)** Explain stack monitoring in detail with a neat sketch. **[6]**

b) Write in a tabular form National Ambient Air Quality Standards (NAAQS) specified by Central Pollution Control Board (CPCB) for SPM and SO<sub>2</sub> (annual and average). **[4]**

*P.T.O.*

- Q5)** a) What are the causes of indoor air pollution? [6]  
b) What is odour pollution? Explain. [4]

OR

- Q6)** a) Explain any two methods to control odour pollution. [6]  
b) Explain method of measurement of odour. [4]

