

Total No. of Questions :6]

SEAT No. :

**P1399**

**BE/Insem./APR-156**

[Total No. of Pages : 2

**B.E. (Civil)**

**AIR POLLUTION AND CONTROL**  
**(2015 Pattern) (Semester - II) (Elective - III)**

*Time : 1 Hour]*

*[Max. Marks : 30*

*Instructions to the candidates:*

- 1) *Answer Q.1 or 2, Q.3 or 4, Q.5 or 6.*
- 2) *Neat diagrams must be drawn wherever necessary.*
- 3) *Figures to the right indicate full marks.*
- 4) *Assume Suitable data, if necessary.*
- 5) *Use of Scientific calculator is allowed.*

**Q1)** a) Enlist primary and secondary meteorological factors influencing air pollution & explain each in brief? [5]

b) List various equipments used and the unit of measurement for the meteorological parameters. [5]

OR

**Q2)** a) What do you understand by stability of the atmosphere? Which are various stability conditions? [5]

b) Explain each term of Gaussian formula. State assumptions and limitations also of Gaussian model. [5]

**Q3)** a) Explain the purpose of ambient air sampling and stack gas sampling. [5]

b) Explain with a neat sketch location of sampling ports and traverse points. [5]

OR

**Q4)** a) Enlist various methods of sampling particulate matter and explain one in detail. [5]

b) Write in a tabular form National Ambient Air Quality Standards (NAAQS) specified by Central Pollution Control Board (CPCB). [5]

**P.T.O.**

- Q5) a)** What are the causes of indoor air pollution with its percentage? [5]
- b) What is air cleaning system for control of indoor air pollution? Explain methods of mechanical ventilation. [5]

OR

- Q6) a)** What is odour pollution? Explain. [5]
- b) Explain method of measurement of odour. [5]

