Total No. of Questions: 10] P3748		of Questions : 10] SEAT No. :	SEAT No. : [Total No. of Pages : 2	
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		[5059]-519	_	
		B.E. (Civil)		
		Air Pollution and Control (Elective - III)		
		(2012 Pattern) (End Sem.)		
		5 Hours] [Max. Marks: 7	0	
Instr	1) 2) 3) 4)	ons to the candidates: Solve Q.1 or Q.2, Q.3 or Q.4, Q.5 or Q.6, Q.7 or Q.8, Q.9 or Q.10. Neat diagrams must be drawn wherever necessary. Figures to the right indicate full marks. Use of logarithmic tables, slide rule, Mollier charts, electronic pocket calculate and steam tables are allowed.	01	
	5)	Assume suitable data, if necessary.		
Q1)	a)	Explain Stratosphere and Chemosphere.	6]	
	b)	What are the limitations of Gaussian model?	4]	
		OR		
Q2)	a)	Explain the following secondary meteorological factors influencing a pollution:	ii 6]	
		i) Precipitation		
		ii) Humidity and		
		iii) Visibility		
	b)	What is air cleaning system for control of indoor air pollution?	4]	
Q3)	a)	Write a short note on high volume sampler with sketch.	6]	
	b)	What are the causes of indoor air pollution?	4]	
		OR		

Q4) a) Explain stable and unstable atmosphere.

[6]

b) Explain any one method to control odour pollution.

[4]

[8]

Q5) a) What are the advantages and disadvantages of fabric filter?

b) Draw a neat sketch of the standard cyclone proportions in terms of diameter D. State expression for (dpc) cut size of particle and separation factor (Fc). [8]

- **Q6)** a) Explain working principle of Electrostatic Precipitator with a neat sketch. [8]
 - b) What are the objectives of air pollution control equipment? Explain with example control of air pollution at source. [8]
- Q7) a) Explain an important provision made in "The AIR (Prevention and Control of Pollution) ACT 1981".
 - b) What are the advantages and disadvantages of a gravity settling chamber. [8]

OR

- **Q8)** a) What is the purpose of environmental (protection) ACT 1986? Explain the powers and duties of central and state pollution control boards. [8]
 - b) Explain procedure of EIA. [8]
- **Q9)** a) Write the environmental rules 1999 (sitting of industries) as per the notification of Ministry of Environment and forests. [9]
 - b) What is land use planning? Explain its importance in controlling air pollution. [9]

OR

- **Q10)**a) Explain roles of different authorities in the EIA Process. [9]
 - b) What is a need of Environmental Impact Assessment (EIA)? Also write about Indian Policies requiring EIA. [9]

