		of Questions : 4] SEAT No. :	
PC-177		[Total No. of Pages	: 2
		[6361] - 35	
		B.E (Civil Engg) Insem.	
		AIR POLLUTION AND CONTROL	A
	(2019 Pattern) (Semester - VII) (401004 A)(Elective - IV	V)
Time	·	Hour] [Max. Marks:	
		ons to the candidates:	
	1)	Answer Q.1 or Q.2, and Q.3 or Q.4.	
	<i>2</i>)	Figures to the right indicate full marks.	
	<i>3</i>)	Draw neat figures wherever necessary.	
Q 1)	a)	What are the zones of atmosphere? Explain any one.	[4]
	b) ,	Write a short note on-	[6]
		i) Ozone Depletion	
		ii) Acid Rain	
		iii) Global Warming	
	c)	Explain National Clean Air Program (NCAP)	[5]
		OR	
<i>Q</i> 2)	a)		[4]
	b)	Explain the important provision made in central motor vehicle Act 1988.	
	c)	Define air quality index (AQI) and explain the significance of it.	[5]
		3.7	
Q3)	a)		[4]
	b)	A factory uses 2,00,000 litres of furnace oil (specific density 0.97) property of for an amiliar litres of ail years and property of the solution litres and air years the solution litres are solution.	_
		month. If for one million litres of oil used per year, the particulate mat emitted is 3.0 tonnes per year, SO2 emitted is 59.7 tonnes per year, NO	
	1	emitted is 7.5 tonnes per year, hydrocarbons emitted are 0.37 tonnes per	
	1		. 4

year, and carbon monoxide emitted is 0.52 tonnes per year, calculate the height of chimney required to be provided for the safe dispersion of the pollutants [5]

Explain plume behavior with the help of neat sketches.

P.T.O.

- OR Explain how the concentration of pollutants is found out by Gaussian **Q4**) a) model. Explain each term of Gaussian formula.
 - List various equipment's used and the unit of measurement for the b) meteorological parameters.
 - Explain the concept of plume rise. What are the factors considered in c) calculating plume rise? Write formulae for calculating plume rise? [5]