Tota	l No. c	of Questions : 8] SEAT No. :	
PR.	-222	1 [Total No. of Pages	: 2
1 1		[6263]-61	
		B.E. (Civil Engineering)	
		AIR POLLUTION AND CONTROL	
(2	2019	Pattern) (Semester - VII) (401004A) (Elective - IV))
		Hours] [Max. Marks:	
Instr	ructio	ns to the candidates:	
	1)	Answer Q.1 or Q.2, Q.3 or Q.4, Q.5 or Q.6, Q.7 or Q.8.	
	<i>2</i>)	Figures to the right indicates full marks.	
	<i>3</i>)	Draw neat figures wherever necessary.	
	4)	Assume necessary data.	
	<i>5</i>)	Use of scientific calculators is allowed.	
Q1)	a)	Discuss basis and statistical considerations of sampling sites.	[6]
	b)	Explain the purpose of ambient air and stack gas sampling.	[6]
	c)	Compare national ambient air quality standards, 2009 and WHO air qual guidelines 2021.	lity [6]
Q 2)	a)	State the objectives of ambient air monitoring.	[6]
	b)	Explain with a neat sketch location of sampling ports and traverse poi in case stack sampling.	nts [6]
	c)	Discuss the components of air quality standards.	[6]

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Q3) a) Define emission factor and relate its significance in preparation of emission inventory. [6]

- b) Classify air quality models based on time period, pollutant type and level of sophistication. [6]
- c) Compare the physical, statistical and deterministic air quality models. [5]

OR

Q4)	a)	Explain the role of emission inventory in air quality management.	[6]
	b)	Enumerate and discuss the basic components and importance of quality modelling.	air [6]
	c)	State the basic equation of emission estimation and describe terminologies.	its [5]
Q 5)	a)	Discuss the measures taken to control the emissions from vehicles.	[6]
	b)	State and explain the carbon sequestration.	[6]
	c)	State the principle mechanism, advantages and applications of cycle as a particulate control equipment. OR	one [6]
Q6)	a)	Explain the measures to be taken to control gaseous air pollutants.	[6]
	b)	Describe the factors responsible for selection of particulate contequipment.	trol [6]
	c)	Describe the control of air pollution at source by process modification change of raw material and equipment modification.	on, [6]
Q 7)	a)	Explain the sources and remedial measures to control odour.	[5]
	b)	Explain sick building syndrome and its solution.	[6]
	c)	Relate improved ventilation to indoor air quality.	[6]
		OR OR	
Q 8)	a)	Explain the radon removal technique.	[5]
	b)		on. [6]
	c)	List and explain the sources of contaminants in indoor air pollution.	[6]
		HHH CLASSING	