NKT/KS/17/5188

Bachelor of Science (B.Sc.) Semester—V (C.B.S.) Examination PRINCIPLES OF AIR AND NOISE POLLUTION Paper—1

(Environmental Science)

Time	e : Th	rree Hours] [Maximum]	Marks: 50
N.B.	· : —	(1) ALL questions are compulsory and carry equal marks.	
		(2) Illustrate your answer with suitable examples and diagram.	
1.	Nam them	ne various sources of Nox pollutants in atmosphere. Explain the sources and adverse effects n.	s caused by
OR			
	(a)	Explain the formation of photochemical smog in atmosphere.	5
	(b)	How Carbon Monoxide is toxic to the human being?	5
2.		at is acid rain? How is it caused? In which regions of India acid rain has been recorded? Some recorded?	Suggest the 10
OR			
	(a)	Discuss the role of ventury scrubber in controlling air pollution.	5
	(b)	Write an informative note on Bhopal gas tragedy.	5
3.	Disc	cuss why catalytic reactor is necessary to control all major automotive exhaust pollutants.	10
		OR	
	(a)	Explain the necessity of the Motor Vehicles Act, 1988 and its provisions to counter vehicular	r pollution.
	(b)	How can you, as an individual prevent vehicular pollution? Why such an effort at individual important?	hual level is 5
4.	Desc	cribe the various measures needed for effective noise control in Industry.	10
		OR	
	(a)	Discuss the non-auditory effect of Noise pollution.	5
	(b)	How errors are classified? Explain with examples.	5
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5. Attempt any **TEN**:—

- (i) Define environmental lapse rate.
- (ii) Mention various categories of particulate.
- (iii) Name any two secondary pollutants.
- (iv) Write the full form of CPCB.
- (v) What are the types of ESP?
- (vi) Enumerate the various particulate pollutants for which National ambient air quality standards have been given.
- (vii) What is the composition of CNG?
- (viii) Name the pollutants emitted by the vehicle ?
- (ix) Why CNG is expected to be less polluting than petrol and diesel?
- (x) Define confidence limits.
- (xi) What is the unit of noise pollution?
- (xii) Calculate the mean and median for the following result obtained in the analysis of Chlorides in a water sample: 74.92, 75.05, 76.09, 75.11, 75.20 and 78.22. $1 \times 10 = 10$

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