NJR/KS/18/3155

Bachelor of Science (B.Sc.) Semester—V (C.B.S.) Examination

PRINCIPLES OF AIR AND NOISE POLLUTION

(Environmental Science)

Paper—1

Time : Three Hours]			[Maximum Marks : 50	
	N.E	3. :— (1) All questions are compulsory and carry equal marks.		
		(2) Illustrate your answer with suitable examples and diagrams.		
1	NT- 4			
1.	that	The the various sources of NO_2 pointiant in atmosphere. What are the ad	iverse effects caused by	
	ulei		10	
	(2)	What are particulates? Mention various types of particulates	5	
	(a)	Explain the formation of photochemical smog in the atmosphere	5	
2	(U) Wh	at is meant by Acid Rain ? How is it formed ? In which regions of In	dia Acid Rain has been	
2.	reco	orded?	10	
	100	OR	10	
	(a)	Explain briefly with sketch a gravity settling chamber for cleaning gas.	5	
	(b)	Enumerate various air pollutants for which National ambient air quality st	andards have been given	
		in India.	5	
3.	Dise	cuss the sources of air pollution from automobiles.	10	
		OR		
	(a)	Explain why catalytic reactor is necessary to control all major automot	tive exhaust pollutants.	
			5	
	(b)	Discuss the salient features of Motor Vehicles Act, 1988.	5	
4.	Des	scribe the various measures needed for effective noise control in industry	r. 10	
		OR		
	(a)	Distinguish between precision and accuracy with suitable examples.	5	
	(b)	Explain any two types of methods of minimization of errors.	5	
5.	Sol	Solve any TEN :		
	(a)	Define wind roses.		
	(b)	Define wind velocity.		
	(c)	Explain the basic concept of green house effect.		
	(d)	What is the long form of CPCB ?		
	(e)	Name the gas which is responsible for Bhopal Gas Tragedy.		
	(f)	What are the types of scrubbers ?	A	
	(g)	Why CNG is expected to be less polluting than petrol ?)	
	(h)	What are the principle pollutants emitted by the vehicle ?		
	(i)	Tabulate the Euro standards prescribed for vehicular emission.		
	(j)	Define decibel scale.		
	(k)	What are the acceptable noise levels for different areas as per WHO	?	