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B.Sc. (Part—II) Semester—IV Examination ENVIRONMENTAL SCIENCE

(Environmental Pollution)

Tim	e : Tl	iree l	lours]				[Maximum Marks: 80
		Not	e :—All qu	estions are compuls	ory and ques	tions 2 to 7 carry	equal marks.
1.	(A)	Fill in the blanks:					2
		(a)	Unwanted	sound is called			1/2
	(b) gas protects life from UV rays.					1/2	
		(c)	Combinati	on of smoke and for	. 1/2		
		(d) is major green house gas.					1/2
	(B)	Cho	ose correct				
		(e) A gas associated with Bhopal Gas tragedy is					. 1/2
			(i) MIC		(ii)	CO	
			(iii) PAN		(iv)	O_3	
		(f)		is unit for nois	e.		1/2
			(i) µgm		(ii)	dB	
			(iii) RAD		(iv)	S-1	1/2
		(g)		is ionizing radiation	1.		1/2
			(i) r		(ii)	microwave	
			(iii) IR		(iv)	visible	
		(h)		is unit for conducti	vity.		1/2
			$(i) S^{-1}$		(ii)	Ω	
			(iii) cm ³		(iv)	α	
	(C) Answer in one sente		sentence each :—				
		(i)	What is S	PM ?~			1
		(j)	What is th	e long form of CFC	cs?		1
		(k)	Define acid	d rain.			1
		(l)	Define aer	osols.			1
2.	(a)	Des	cribe variou	4			
	(b)	Def	ine air pollution and give composition of normal air.				4
	(c)	Exp	lain effects	of NOx on human b	eings.		4
					OR		

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	(u)	Withthanker of chinicle example explain secondary air pollutant. www.FirstRanker.com www.FirstRanker.com	er.com							
	(e)	Explain natural sources of air pollutants.	4							
	(f)	Explain reactions of SO ₂ in atmosphere and resultant effect.	4							
3.	(g)	Explain any two quality characteristics of water.								
	(h)	Describe factors affecting ground water pollution.	4							
	(i)	Explain various sources of oil pollutants in sea water.								
OR										
	(j)	Describe physical effects of oil in water.	4							
	(k)	Explain effects of domestic Sewage on Environment.	4							
	(l)	Explain effects of thermal pollution.	4							
4.	Disc	cuss how Agricultural wastes, urban wastes and industrial wastes are polluting soil.	12							
		OR								
	Disc	Discuss any three typical Soil pollutants and how soil pollution can be controlled.								
5.	(m)	Explain industrial noise and transport noise.	4							
	(n)	Explain the concept of "Reduction of noise at source" with suitable example.	4							
	(o)	Describe any two physiological effects of noise on human.	4							
	OR									
	(p)	Suggest any two control measures to control traffic noise.	4							
	(q)	Explain any two psychological effects of noise on human being.	4							
6.	(r)	Explain decibel along with various threshold limit values.	4							
	(s)	With the help of suitable reaction explain nuclear fission and is applications.								
	(t)	Describe early radioactive fallout.	4							
	(u)	Explain any two sources of radiations with typical radiations and its control.	4							
OR										
	(v)	Explain mechanism of interaction of ionizing radiations to living thing.	4							
	(w)	Explain mechanism of delayed radioactive fallout.	4							
	(x)	Describe curie and rad as radiation units.	4							
7.	Dis	cuss causes, mechanism, effects and control measure for green house effect.	12							
	OR									
	Def	ine thermochemical and photochemical smog. Explain causes, mechanism and effect of s	ulphur							
smog.										

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