P. P. SAVANI UNIVERSITY

Third Semester of B.Sc. Examination December-2021

SSES2010- Environment Pollution and Human Health I 07.12.2021, Tuesday Time: 09:00 a.m. to 11:30 a.m. Maximum Marks: 60

Instructions:

	3.	The question paper comprises of two sections. Section I and II must be attempted in separate answer sheets. Make suitable assumptions and draw neat figures wherever required. Use of scientific calculator is allowed.	
A Silica dust B Cotton dust C Asbestos dust D Coal dust 1.1c Effects of volatile organic compounds does not include A Irritation of the eye B Nausea C Loss of coordination D Hay fever 1.1d Air quality index category is decided based on	1.1	Objectives The main components of the photochemical smog result from the action of sunlight on and nitrogen oxides produced by automobiles and factories. A Unsaturated hydrocarbons B Saturated hydrocarbons C Both a and b	[10 [05
B Nausea C Loss of coordination D Hay fever 1.1d Air quality index category is decided based on	1.1b	A Silica dust B Cotton dust C Asbestos dust	
A Ambient concentration B Maximum concentration C Minimum concentration D All of the above 1.1e When it rains water that is not absorbed into the ground by vegetation or evaporated flows into surface waters. A Intercepted B Precipitated C Agitated D Accumulated 1.1f With rise in temperature level of dissolved oxygen in water. A Remains same	1.1c	B Nausea C Loss of coordination	
A Intercepted B Precipitated C Agitated D Accumulated With rise in temperature level of dissolved oxygen in water. A Remains same	1.1d	A Ambient concentration B Maximum concentration C Minimum concentration	
A Remains same in water.	1.1e	A Intercepted B Precipitated C Agitated	
	1.1f	Nomanis Same	

	D First increase then decrease	
1.1g	E. coli is considered as the best indicator of A Fecal pollution B Surface water pollution C Ground water pollution D Soil pollution	
1.1h	A As (III) B As (II) C As (IX) D As (VII)	
1.1i	These pollutants do not persist in the form in which they are added to the environment. A Primary pollutants B Qualitative Pollutants C Both a and b D None of the above	
1.1j	In India CPCB has been executing a nationwide programme of ambient air quality monitoring known as A National Air Monitoring Programme B National Air Quality Control Programme C National Monitoring Programme	
	D National Air Quality Monitoring Programme	
1.2 1.2a 1.2b 1.2c 1.2d 1.2d	Certain substances deplete the amount of ozone in the stratosphere,	[05]
Q.2 A B	Short Notes (Attempt any two) Enlist different types of pollutants according to their persistence, existence, nature of disposal, origin. Differentiate between classical smog and photochemical smog. Discuss health effects of London Smog. What do you understand by national air quality monitoring programme and why it is undertaken in India?	[06]
Q.3 A B C	Explain in detail (Attempt any two) Describe sources of noise pollution. Discuss causes of soil degradation. Describe the primary and secondary treatment processes involved in Effluent Page 2 of	[14]

/		Section-II (Total Marks - 30)	[40]
Q.1	Shor	rt Questions	[10] [05]
1.1			[1
1.1a		ectives ioactive strontium affects bones by depositing in the bones instead of	
	-	Iron	
	B	Zn Ca	
	D	K	
1.1b	The	e quantity of DDT at each trophic level in food chain	
		Decreases	
	В	Remains the same	
		Increases Changes	
	D		/
1.10	Wh	nat happens to the soil during soil pollution	
1110	A	Incorporation of unwanted chemical .	
	В	Plants die because of human ignorance	
	C.		
	D	None of the above	
1.10	PO A B C D W A B C	Mineral oil Nitrogen oxides Hydrocarbon That is the dB of a threshold of pain? 100 110 146 120 The sound beyond which level is regarded as pollutant 40dB 8 80dB 1 120dB	
		lusies somes from	
1.1	-	Occupational noise comes from A Industries	
		A Industries B Houses	
		C Transport	
		D All of above	
1.		Pesticide fertilizer causes which pollution	
		A Air pollution B Water pollution	
		C Soil pollution	
			Page 3 of 4

D Oil pollution

1.1i Following is used for measuring intensity of sound

	A Sound level meter	
	B Frequency meter	
	C Both A and B	
	D None of above	
1.1	In which unit sound is measured?	
	A Km	
	B Pa	
	C Kg	
	D Decibel	
	D Decibel	
1.2 1.2a	and a matter of cutification of the cutificati	[05]
	other microorganisms through of ozone.	
1.2b	Acalled slime is formed over the individual rocks and this film consumes wastes trickling through rock bed.	
	particles.(True/False)	
	The cultural eutrophication process consists of a continuous increase in the contribution of nutrients, mainly nitrogen and boron.(True/False)	
1.2e	Values in excess of those mentioned under acceptable render the water not suitable.(True/False)	
0.2	Short Notes (Attempt	
A	Short Notes (Attempt any two) Explain Bioventing.	[06]
В	Explain Bioventing,	
C	Explain Biomagnification	
	Discuss National air quality monitoring programme and ambient air quality standards.	
2.2		
Q.3	Explain in detail (Attempt any two)	[14]
A	What is soil pollution and discuss major causes of soil pollution?	1
3	Discuss various control measures of noise pollution?	
	What are the effects of soil and noise pollution?	