Enrollment No: _____ Exam Seat No: _____ Exam Seat No: _____ Winter Examination-2021

Subject Name : Environmental Engineering

Semester : 5 Date : 13/12/2021 Time : 11:00 To 02:00 Marks : 70 Instructions: (1) Use of Programmable calculator & any other electronic instrument is prohibited. (2) Instructions written on main answer book are strictly to be obeyed. (3) Draw neat diagrams and figures (if necessary) at right places. (4) Assume suitable data if needed.
 Use of Programmable calculator & any other electronic instrument is prohibited. Instructions written on main answer book are strictly to be obeyed. Draw neat diagrams and figures (if necessary) at right places. Assume suitable data if needed.
Q-1Attempt the following questions:(14a)Which of the following organisms found in human waste that cause water1pollution?1
 a) Coliform bacteria b) Viruses c) Protozoa d) Parasitic worms b) Which of the following is a secondary air pollutant? a) SPM b) PAN c) SO2 d) NO2
 c) Which process of water treatment is done to avoid floating debris, branches, 1 trees or other large particles suspended in water? a) Screening b) Aeration c) Primary sedimentation d) Secondary sedimentation
d) The term 'Sullage' refers to:1a) Fresh wastewaterb) Septic wastewater
 c) Wastewater from kitchen, laundry d) Toxic wastewater e) Which gas produced in open dumps from the decomposition of biodegradable 1 waste? a) Ethane b) Methane c) Propene d) Ethene
 f) In which method of population forecasting, increase in population from decade 1 to decade is assumed constant? a) Arithmetical increase method b) Geometrical increase method
 c) Incremental increase method d) Decreased rate of growth method g) The term 'Municipal Solid Waste' is used to describe which kind of solid 1 waste? a) Hazardous b) Toxic c) Non hazardous d) Non toxic
 h) Who appoints the chairman of the Central Pollution Control Board? a) Central Government b) State Government c) Governor of the State d) President of India
 i) Non-renewable resources are (a) Soil-water (b) Plants and animals (c) Coal, petroleum (d) Sunlight, air
 j) Which gas is mainly produced due to incomplete burning of wood? a) CO b) SO2 c) NO2 d) NO3
 k) The study of interaction between living species and the environment is called 1 (a) Biology (b) Autology (c) Ecology (d) Zoology Page 1 of 2



	l)	Why certain parts of water bodies contain more number of algae?	1
		a) Due to favorable environment b) Due to run-off excess fertilizers	
		c) Due to lack of fertilizers d) Due to water pollution	
	m) Study of trends in human population growth and prediction of future growth is called	1
		(a) Demography (b) Biography (c) Paleography (d) Psychology	
	n)	What is noise?	1
		a) Desirable sound b) Desirable and unwanted sound	
		c) Undesirable and unwanted sound d) Undesirable and wanted sound	
Atten	npt an	y four questions from Q-2 to Q-8:	
Q-2		Attempt all questions	(14)
•	Α	Enlist the various reasons and adverse effects of population explosion.	7
	B	Enumerate with examples the major sources of surface water pollution and	7
		ground water pollution.	
Q-3		Attempt all questions	(14)
	Α	Explain the impact of "Technology and development of environment."	7
	В	Briefly describe the sources and effects of noise pollution.	7
Q-4		Attempt all questions	(14)
C	Α	Give an account of the adverse effects of different air pollutant.	7
	B	Write a short note: Water treatment plant.	7
Q-5		Attempt all questions	(14)
٧v	Α	How can you, as an individual prevent Environmental pollution.	7
	B	What is solid waste management? Describe it with flow diagram indicating its	7
	D	all functional elements?	
Q-6		Attempt all questions	(14)
τ.	Α	Write a short note on Eutrophication.	7
	B	Explain in detail Renewable & Non Renewable sources of energy.	7
Q-7		Attempt all questions	(14)
	Α	Explain the physical and chemical waste water treatment process with neat	7
		sketch.	
	B	Write a short note on Organometalllic Compounds in the environment.	7
Q-8		Attempt all questions	(14)
-	Α	What do you understand by the word 'Integrated Pest Management (IPM)'?	7
	B	Explain various methods of population forecasting.	7

