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SARDAR PATEL UNIVERSITY

M.Sc. Polymer Science & Technology Semester-IV Examination – 2019 Tuesday, 26th March 2019 2:00 p.m. to 5:00 p.m.

PS04EPST21: ENVIRONMENTAL SCIENCE

		Total Marks: 7	0			
Note:	` ′	(1) Attempt all questions.(2) Figures to the right indicate marks.				
Q. 1	(1)	Answer the following multiple choice questions. Aerosols diameter less than 0.2µ is called (a) Atikans (b) Atiken (c) Atison (d) none of above.	08			
	(2)	Particles with a diameter more than \mu is remove by gravity settling chamber. (a) 30 (b) 80 (c) 50 (d) 10.				
	(3)	Peroxyacetylnitrare is pollutant. (a) primary (b) secondary (c) both a & b (d) none of above.				
	(4)	In Stack Gas measurement concentration of sulphur dioxide is measure by its				
		(a) weight (b) velocity (c) colour (d) none of above.				
	(5)	Runoff from agricultural lands provide plant nutrients in natural setting, this biological process called (a) eutrophication (b) neutralization (c) detonation (d) none of above.				
	(6)	is long lived radioactive component. (a) Ra-226 (b) Sr-90 (c) kr-85 (d) Ba-140.				
	(7)	At °C temperature thermophilic bacteria take place for decomposition. (a) 25(b) 35 (c) 45 (d) 60.				
	(8)	is a pathological waste. (a) Fruit (b) Wood (c) Chemicals (d) Dead animals.				
Q. 2		Attempt any seven of the following.	14			
	(1)	Give environmental composition.				
	(2)	Enlist sources of air pollution.				
	(3)	Explain sulphur cycle.				
	(4)	Write a note on CFC substitutes.				
	(5)	Give a note on Stratosphere.				
	(6)	Write a note on chloride analysis for water.				
	(7)	Explain Biochemical effect of pesticides.				
	(8)	What do you mean by urban wastes?				
	(9)	Write a note on sanitary landfill.	0)			

Q. 3	(a)	Draw a neat labelled diagram of nitrogen cycle and explain.	UO-
	(b)	Explain in detail about ecology and ecosystem.	06
		OR	0.0
	(b)	Write a note on carbon cycle and oxygen cycle.	06
Q. 4	(a)	Explain in detail about major sources of air pollution.	06
	(b)	What is photochemical smog? Explain in detail with the help of route for reactive hydrocarbon and peroxyacyl nitrate. OR	06
	(b)	Explain in detail about Green house effect.	06
Q. 5	·(a)	Write a note on following: (i) Biochemical oxygen demand (BOD). (ii) Chemical oxygen demand (COD).	06
	(b)	Explain radioactive wastes. OR	06
	(b)	Write a note on toxic chemicals for environment.	06
Q. 6	(a)	Write a note on following: (i) Open dumping disposal method. (ii) Incineration.	06
	(b)	Explain in detail about Composting. OR	06
	(b)	1. C.C. Harrison	06

