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SEAT No.\_\_\_\_

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## SARDAR PATEL UNIVERSITY

## M. Sc $4^{th}$ Semester (Surface Coating Technology) (CBCS) Examination Thursday, $19^{th}$ April, 2018

		Thursday,	19 <sup>th</sup> April, 2018				
	]	PS04ESCT02: Env	ironmental Manageme				
Time: 2:00 pm to 5:00 pm  N.B. 1) Marks allotted to the question are on its RHS  2) Illustrate your answer whereas necessary with the help of neat sketches and chemical equation							
Q.1	Choose the correct A	Answer from the F	ollowings.		[08]		
1.	Green Chemistry is a a. Benign Chemistry		c. Applied Chemistry	d. Clean Chemistr	у		
2.		ing fossil fuels it w	s a carbon-source buildiould be considered as c. both a & b		2		
3.	Which of the following. Addition	ng reaction consider b. Substitution	as 100 % atom econom	nical? d. None of these			
4.	The presence of which a. SO <sub>2</sub>	th of the following g b., CO <sub>2</sub>	gases in air checks the U c. NO	V light from sunlig d. O <sub>3</sub>	ht?		
5.	Acid rain caused due a. Ozone and dust		c. SO <sub>3</sub> and CO	d. SO <sub>2</sub> and NO <sub>2</sub>			
6.	BOD/COD ratio alwa		c. less than 1	d. none of these			
7.	In which process dec temperature in absen a. Incineration	,	nic waste is done by exp	oosing it to high d. none of these	,		
8.	Green House effect i a. CO <sub>2</sub>	s caused by b. CH4	c. NO	d. all of these	7 2 1		

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Q.2	1. 2. 3. 4. 5. 6. 7. 8.	Enlist tools of green chemistry. How atom economy is different from yield? What is a renewable and depleting feedstock? Give its example. From a green chemistry standpoint, what would the advantages and disadvantages be of using a solvent that is volatile versus one that is not? Define solid waste and classify it. Enlist drivers of EMS. Lists the problems associated with ISO 14001 certification. Write environmental benefit of using reduce, reuse and recycle method for solid waste management List the various air pollution control methods.	[14]
Q.3	(a) (b)	Describe in detail about the tools of green chemistry	[06]
	(b)	Write a note on Green Solvent.	[06]
Q.4	(a) (b) (b)	economic impacts and should be minimized". Explain.  Explain in detail real-time, in-process analysis beneficial to green chemistry.  OR	[06] [06]
Q.5	(b)	· · · · · · · · · · · · · · · · · · ·	[06] [06]
Q.6 <sub>.</sub>	(a) (b) (b)	14001 certification.  Discuss about waste minimization option for Paint manufacturer.  OR	[06] [06]
		X	