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SEAT No.\_

No. of Printed Pages: 02

## SARDAR PATEL UNIVERSITY

## M.Sc.( Semester-I) External Examination Monday, 25th November 2019 PS01ECHE23-APPLIED AND INDUSTRIAL CHEMISTRY

		00 a.m. to 01:00 p.m.  Total Marks: 70	otal Marks : 70	
Q.1	Ch.	noose the correct answers from the options given below.	—— [08]	
(1)	Uı	nit Operation is a process.	•	
	(a	Physical (b) Chemical (c) Industrial (d) Piolarian	,	
(2)	Cr	ystallization operation is possible due to of liquid.		
(2)	(a	saturation (b) Temperature (c) Super Saturation (d) Programs		
(3)	III (a)	is the major product.	٠.	
		) m-nitro acetanilide  (b) p-nitro acetanilide  (d) None of above		
(4)		ndane is also known as (d) None of above		
( )		ADDT (b) Commo UCU		
(5)	In	which type of glass only one pot is used in pot furnace during melting process?	•	
in a transfer of the second	(a)	Opal glass  (b) Optical glass		
	(c)	Sodium silicate glass (d) Calcium silicate glass		
(6)	Por	rtland Cement is made up by heating with small quantities of other materials		
		in the state of th		
(7)		Stones (b) Calcium Carbonate (c) Metals (d) All of above		
(7)	A D dru	iologically inactive compound that can be metabolized in the body to produce a	•	
		Produig (b) Soft days		
(8)		rrourug (b) Soft drug (c) Agonist (d) Antagonist  medicinal chemistry term "starting material" is called asfor drug discovery.		
	(a)	Lead compound (b) Lead metal		
		New prescribe (d) Starting		
		(w) our ung		
			٠.	
<b>Q.2</b>	(4)	Answer ANY SEVEN from the following:	[14]	
	(1)	Write a note on thermal insulator.		
	(2)	Explain the factors affecting the process of evaporation of liquid.		
	(3)	What is the difference between sulfonation and sulfation?		
	(4)	Explain the synthesis of Phthalic anhydride.		
	(5)	Write a note on raw material of cement.		
	(6)	Write a short note on mixing additives to cement.		
	(7)	•		
	` `	Explain the effect of heat on milk.		
	(8)	Write a short note on oxidizing agents.		
	(9)	Give the difference between drying and evaporation.		
		(PT-0)	•	

Q.C	(B)	The word of heat transfer with suitable examples	. [0
		OR	[4
	(B)	What is Reynold's experiment? Explain it in detail.	[0
Q.4	(A) (B)	Explain the synthesis of Nitro benzene by Batch process.  Explain the synthesis of benzene sulfonic acid.	[(
	(B)	OR Explain the synthesis of Chloro benzene by unit process.	[0 ]
0 F			
Q.5	(A) (B)	Explain the manufacturing process of cement.  Write a brief note on special glasses.	[0
•	(B)	OR  Explain melting and shaping process for glass manufacturing.	[0] [0]
Q.6	(A)	Write a note on pasteurization of milk	
	(B)	Discuss important method which can be used for lead identification.	0] [0
	(B)	Write a note on composition of ice cream, cheese and ghee.	- [0

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