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(45) SEAT No.____

No. of printed page: 02

SARDAR PATEL UNIVERSITY M.Sc. (SEMESTER-I) EXAMINATION Tuesday, 30th October 2018. TIME: 10.00 A.M. to 01.00 P.M.

APPLIED AND INDUSTRIAL CHEMISTRY: PS01ECHE23

Not	e:	Figure to the right indicate full marks.		Total marks: 70		
	٧١	and the council anomaly from the		eseA per le dispersión i la co		
. •	,no	oose the correct answers from the options given below.				
	1.	Heat flow mechanism through gasous is				
	_	(a) Conduction (b) Radiation	(c) Convection	• •		
	2.	Material that have very low th				
		(a) Thermal insulator (b)	Mechenical insulator			
		(c) Both (a) and (b) (d)	None of these			
	3.					
			(c) Gypsum	- /		
٠,	4.	is process of heating the steel to	a sufficiently high tem	perature to soften it.		
		(a) Annealing (b) Harding	(c) Quenching	(d) All of these		
	5.	in inclusion of recommittee, is the	e major product.	era syrami re Pering Tellon significant Tellonia		
			o- nitro acetanilide			
		(c) m- nitro acetanilide (d)	None of these	transki stranof (#2		
	6.					
•	υ.		(a) Bisomar	(d) None of chove		
,	7	(a) γ isomer (b) α ispmer Size of fat globules is in milk	for	(d) None of above		
	٠.	(a) 2-10 μ m (b) 0.2-1.04 μ m				
•	Q	sugar is present in the milk.				
•	σ.	(a) Galactose (b) Sucrose	(c) Lactose			
		(b) Sucrose	(c) Lactosc	(d) Tuctosc		
			da in the wholegaph to wight	4.35.35 基础。2.35 (2013)		
	An	swer the following. [Any seven]		[14		
	(1) Write the factor affecting of Filtration.				
	(2	2) Write the difference between drying and evaporation.				
	(3) Define the term Oxynitration with suita	And the second			
	(4	4) What is the difference between sulfonation and Sulfation?				
	(5) Write the ideal characteristic of steel.				
	(6) Which additive is mixed with cement?				
	(7) Explain the effect of heat on milk.				
	(8) Write only name of the method yse for	the identification of lea	d compound.		
) Explain how unit operation is different		_		
		· •	•			

(P.TO)



Q. 3. [A] What is Reynolds's experiment? Explain it in detail.	[6]
[B] Write a note on shell and tube heat exchange with diagram. OR	[6]
[B] (i) Explain the mechanism of crystallization.	[3]
(ii) Explain the mode of heat transfer with suitable example.	y _{je} ve* [3]
Q. 4. [A] Explain the Manufacturing of BHC by unit process. [B] Write a note on batch nitration of benzene by unit process.	[6] [6]
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are control and appearing frequency $\mathbf{O}_{\mathbf{R}}$, and the control and the first control field of	
[B] (i) Write a note on oxidizing agent.	[3]
(ii) Describe the unit process of m-dinitrobenzene.	[3]
salphi (1945) — market i series — milji kultur — kuljik saje Jagailan algorija napada taj kontribusta kontribus (1888) kuntribus (1888)	
Q. 5. [A] Write brief note on mixing of additives to Cement. [B] List down and explain the basic applications on some special glasses. OR	[6] [6]
[B] Describe about the raw material of Cement.	[6]
Q. 6. [A] Explain the role of homologation, chain branching and ring chain transformation in	[6]
designing newer drugs Here the state of the self-control of the s	
[B] Explain the process of Pasteurization of milk in detail.	· [6]
\mathbf{OR}	
[B] Write a short note on composition of ghee and Cheese.	[6]
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