

SARDAR PATEL UNIVERSITY



T.Y. B.Sc. Industrial Chemistry SEMESTER – V EXAMINATION -2022 Petroleum and Petroleum Products SUB CODE: US05CICH22

DATE: 11/11/2022 DAY: Friday TIME: 10.00 AM TO 1.00 PM TOTAL MARKS: 70

		al a anyone property			[10]		
-4-		e the correct answer.					
(1)		eneral formula of paraffin is	(C)	CH			
	٠.	C_nH_{2n} C_nH_{2n+2}	(D)	None of these			
	(B)						
(2)	Demulsification process is used in crude oil for			Salts			
	(A)	water	(C)	None of these			
	(B)	Sulphur	(D)	MOHE OF these			
(3)	Whic	h diesel has more than 1000 rpm speed?		اموال بالموا			
•	(A)	Low speed diesel	(C)	high speed diesel	•		
	(B)	Medium speed diesel	(D)	None of these	•		
(4)	Extra	ction of aromatic by ethylene glycol is					
1.1	(A)	UDX method of extraction	(C)	steam distillation			
	/B)	solid liquid extraction	(D)	None of these.			
(5)	\Mhic	Which product obtain from demethanizer in sepration of C2 fraction?					
137	(A)	Methane	(C)	N_2			
	(A) (B)	H ₂	(D)	All of these			
161	The	catalyst used in manufacture of HCN is.					
(6)			(C)	Au			
	(A)	Ag Pt-Rhodium alloy	(D)	Cu			
	(B)	PC-Kilodium alloy	• •				
(7)		ch gas separated from CS ₂ Production?	(C)	O_2			
	(A)	Cl ₂	(D)				
	(B)	H ₂ Sis used in manufacture for unsaturate		_			
(8)			(C)	CS ₂			
	(A)	Maleic anhydride	(C) (D)				
	(B)	HCN	(D)	11202			
(9) Ma	Major uses of LABS is in the field of					
	(A)	Detergent	(C)				
	(B)	Food	(D		. in		
(10	Manufacturing of butane to butadiene the requite steam to butane ratio is						
•	(A)		{C) 4:5			
	(B)		(D) 10:15			
	1-7	•			(B.T.O.)		

Q.:	1) N	answer the following.(attempt ten) lame the various reactions taking place in catalytic cracking	[20]
(3	2) E 3) M	xplain signification of water removal from crude oil /rite the detail of modern theory of petroleum formation ive the separated product by C8 fraction.	
(5 (6 (7	i) D i) Ni i) Sk	raw the flow diagram of UDEX extraction method. The same various techniques used for separation of petroleum distillate. The same various techniques used for separation of petroleum distillate.	
(8 (9 (10 (11) (12)) Ex) Ex) Ex	rite a use of ethyl benzene. plain product obtain from methane. plain regeneration of catalyst, production of Butadiene. plain liquid phase hydration of ethylene. rite the reaction condition production of propionaldehyde.	
Q.3		Explain Theory of petroleum.	[10]
Q.3		OR Composition of petroleum in detail.	[10]
Q.4	(A) (B)	- 4 tan 10 to temperature separation of C ₂ fraction.	[05] [05]
Q.4	(A) (B)	OR Explain extraction of Aromatic fraction using with liquid SO₂. Explain process with flow diagram removal of ISO-butane from C4-Fraction	[05] [05]
Q.5	(A) (B)	Write the Manufacture of HCN. Explain Manufacture of ethyl benzene.	[05] [05]
Q. 5	(A) (B)	mandiacture of isopropyl penzene	[05] [05]
Q. 6	(A) (B)	Explain the manufacturing process of Phenol	[05] (05)



(A) Production process of Vinyl acetate.

(B) Write the manufacturing process of Butadiene.

[05]

[05]

[05]