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B.Sc. (Part-III) Semester-VI Examination

PETROCHEMICAL SCIENCE

Time: Thr	ree	Hours]		[Maximum Marks: 80	
Note :—(1)		Question No. 1 is compulsory.			
(2	2)	Remaining six questions carry 12 marks each.			
(3	3)	Give chemical equation and draw diagram wherever necessary.			
1. (A) Fi	ill i	in the blanks with appropriate words:			
(i	(i) catalyst constitute a different phase in the reaction me			e in the reaction medium.	
(i		The is defined as the number of waves which can pass through a point ir one second.			
(i	iii)	LNG is the important feed stock for type of HC.			
(i		The of the catalyst includes its structure.	con	stituents, physical form, the texture and 2	
(B) C	hoc	ose the correct alternative :			
(i	i)	solvent produces greatest migr	atio	n and this gives better separation.	
		(a) Polar	(b)	Non-polar	
		(c) Anti-polar	(d)	None of the above	
(i		Natural gas is essentially and represents the cleanest and richest form of commercially available energy.			
		(a) Propane	(b)	Butane	
		(c) Pantane	(d)	Methane	
(i	(iii) One of the disadvantages of as a fuel is smoke evol- which leads to environmental pollution.			fuel is smoke evolution from burning	
		(a) Fuel oil	(b)	Natural gas	
		(c) Coal	(d)	LPG	
(iv)		Hydrogen means clean energy that is:			
		Hydrogen \rightarrow Energy +			
		(a) Water	(b)	Hydrogen	
		(c) Oxygen	(d)	Nitrogen 2	
(C) A	Insv	swer in one sentence :			
(i	i)	What is Pollutant?			
(i	ii)	Define Beer's law.			
	1 3500 104 00	What is chromophore ?			
(i	(iv) Which catalyst is used in desulfurization process for production of syngas? 4				
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