4/12/2024 CHEMICAL SEM-IV C SCHEME IEC-II QP CODE: 10064984

(Time :3 Hours)	(Total Mar	rks : 80)
N.B:	 Question.No.1 is compulsory. Attempt any three questions from Q.No.2 to Q.No.6 Assume suitable data. Figures to the right indicate full marks. 	TESTE ASSET
Q1	Solve any Four out of Six	(20)
A	Write in detail about acid base reactions & solvolysis w.r.to liq.NH non-aqueous solvent.	3 as
В	Explain features of IR spectroscopy.	
C	Explain High Performance Liquid Chromatography (HPLC).	
D	Write in detail origin of charge on colloidal particles.	
E	Write down two chemical properties of Aceto Acetic Ester.(AAE)	
F	Define catalyst. Explain its characteristics. (Any 3)	
Q2	Control of the contro	(20)
A	Differenciate between True solution & colloidal solution.	
B	Write in detail about Levelling effects of solvents.	
C C	Write in detail the Principle and any 2 applications of Gas solid Chromatography.	
Det Des	Explain Thermal Gravimetric Analysis, with its applications.	
Q3		(20)
A A A A A A A A A A A A A A A A A A A	Explain no. of H ¹ NMR signals in a.CH3-CHBr-COOH b. CH3CH2COOCH2CH3	
B	Explain emulsions in detail.	
Cor	Write Autocatalysis & Activation energy.	
D	Give an account of Beckmann rearrangement.	
Q4	The state of the s	(20)
AS	Explain Paper Chromatography.	
B	Explain aromatic character of Naphthalene.	
C	Give the Principle & any 2 applications of UV spectroscopy.	
A DA	Give the application of colloids in Pesticides.	
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Q5	
A	Write any 2 applications of Aceto acetic ester.
В	Explain Dielectric constant & dipole moment of Ionising solvents.
C	What is Chromatography? What do you mean by Partition chromatography?
D	Write in detail about Catalytic Promoters and Catalytic Inhibitors with examples.
Q 6	Cao
A	What is the concept of Electrokinetic potential? Explain Dorn effect.
B	Write in detail principle and working of Gas chromatography- Mass Spectrometry (GC-MS).
C	Write a note on Precipitation reactions & Redox reactions of liq SO2
Diagram	Write in detail any 2 preparation methods of Malonic ester.

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