Sanjay Ghodawat University, Kolhapur

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2020-21

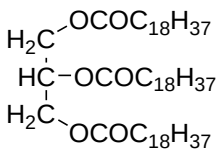
EXM/P/09/00

Year and Program: 2020-21/ T.Y. B.Sc.	School of Science	Department of Chemistry
Course Code: CHS301	Course Title: Organic Chemistry	Semester : V
Day : Date :	Re-End Semester Examination	Time : 2 Hrs. Max Marks : 50

Question Paper

Instructions: 1) All Questions are compulsory.

		Marks	Bloom's Level	CO
Q.1	**Answer the following (any Two)**			
a)	Write all possible conformations of n-butane and their energies. Comment on the stability of these conformations.	**8**	L2	CO1
b)	Give the classification of the poly-nuclear aromatic hydrocarbons. Explain *Friedel crafts* method for the preparation of anthracene. Give any two reaction of anthracene.	**8**	L3	CO2
c)	Explain *Paal-Knorr* synthesis of pyrrole with mechanism. Write *Reimer-Tiemann* reaction of pyrrole.	**8**	L2	CO3
Q.2	**Answer the following (any two)**			
a)	How will be prepared pyridine by *Hantzsch* synthesis methed? Give any three reactions at Nitrogen in pyridine.	**8**	L4	CO3
b)	Explain *Hoffmann's* exhaustive methylation and *Emde's* degradation method used to find out structural fragment of alkoid molecules,	**8**	L3	CO4
c)	What is the significance of the acid value, saponification value, and iodine value? Calculate saponification value of the following ester.	**8**	L3	CO5



Q.3 Answer the following (any two)

a)	How will you prepare quinoline by using i) o-amino benzaldehyde and acetaldehyde and ii) Aniline and aldehydes? What are the uses of quinolone?	**9**	L5	CO3
b)	Write in detail isolation, structure elucidation and synthesis of Hygrine.	**9**	L3	CO4
c)	How will you prepare paracetamol and Ibuprofen? Give it's the medical application.	**9**	L4	CO5

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