Sanjay Ghodawat University, Kolhapur

Established as State Private University under Govt. of Maharashtra. Act No XL, 2017

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

Answer key

Instructions: 1) All Questions are compulsory.

		Marks	Bloom's Level	CO
Q.1	**Answer the following (any Two)**			
a)	Conformations of n-butane : 5 M Their energies: 1M stability of these conformations: 2M	**8**	L2	CO1
b)	Classification of the poly-nuclear aromatic hydrocarbons: 2 M *Friedel crafts* method for the preparation of anthracene: 4 M two reaction of anthracene: 2M	**8**	L3	CO2
c)	*Paal-Knorr* synthesis of pyrrole 2 M Mechanism: 3M *Reimer-Tiemann* reaction of pyrrole: 3M	**8**	L2	CO3
Q.2	**Answer the following (any two)**			
a)	pyridine by *Hantzsch* Synthesis 2 M reaction at nitrogen in pyridine 2M each reaction	**8**	L4	CO3
b)	Explaination of *Hoffmann's* exhaustive methylation 4 M *Emde's* degradation method - 4M	**8**	L3	CO4
c)	Significance of the acid value, saponification value, and iodine value 3M Calculation saponification value of the ester. 5 M Mol. Wt.= 833, **saponification value-201.68**	**8**	L3	CO5

Q.3 **Answer the following (any two)**

a)	Preparation of quinoline by using i) o-amino benzaldehyde and acetaldehyde4 4M ii) Aniline and aldehydes- 4 M Uses of quinoline 1M	**9**	L5	CO3
b)	Isolation 2 M Structure elucidation of Hygrine 3 M Synthesis of of Hygrine 4 M	**9**	L3	CO4
c)	Preparation of paracetamol and Ibuprofen 5 M Medical application of each medicine. 4 M	**9**	L4	CO5

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