Sanjay Ghodawat University, Kolhapur

2020-21

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

EXM/P/09/00

Year and Program: **S.Y. B.Sc.: 2020-21**	**School of Science**	**Department: Chemistry**
Course Code: CHS-201	**Course Title: Chemistry-III**	**Semester : III (odd)**
Day : **Date :**	**Re-End Semester Examination**	**Time : 2 Hrs.** **Max Marks : 50**

Question Paper

Instructions: 1) All Questions are compulsory.
2) Use of log table and scientific calculator is allowed.

		Marks	Bloom's Level	CO
Q.1	**Answer the following (any Two):**			
a)	Describe with suitable phase diagram the one component water system.	8	L-2	1
b)	What is reduced phase rule? Describe phase diagram of lead-silver system. Give significance of this diagram in de-silverization of lead.	8	L-4	1
c)	Discuss in detail preparation acid chlorides and acid anhydrides from carboxylic acid.	8	L-3	2
Q.2	**Answer the following (any two):**			
a)	Explain the following electrophonic aromatic substitution reaction and their mechanism with aniline. i) Nitration ii) Sulphonation.	8	L-3	2
b)	State and explain *Kohlrausch* law of independent migration of ions. The equivalent conductivity at infinite dilution of NH_4Cl is 150 and the ionic conductance of OH^- and Cl^- are 198 and 76 respectively. What will be the equivalent conductivity of the NH4OH at infinite dilution?	8	L-3	3
c)	Give a brief account of primary, secondary and tertiary structures of protein.	8	L-3	4
Q.3	**Answer the following (any two) :**			
a)	How will you prepare amine? Write any two reactions of amine with their mechanisms.	9	L-3	2

b)	Define the terms specific conductivity and equivalent conductivity of solution and derive the relation between them.	9	L-2	4
c)	Discuss Edmans method for structure determination of proteins.	9	L-3	4

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