2021
B.A./B.Sc.
Third Semester
CORE – 7
CHEMISTRY
Course Code: CHC 3.31
(Physical Chemistry - III)

PART–B
Total Mark: 30

Answer the following questions.

1. (a) Explain the phase diagram of H_2O system.   3
   (b) Differentiate congruent melting point and incongruent melting point with suitable examples.   3

. (a) Explain the triangular phase diagram of $H_2O–CHCl_3–CH_3COOH$ system.   4
   (b) Give suitable phase diagram with CST.   2

3. (a) Derive the rate expression for the second order reaction.   4
   (b) Explain the determination of rate of reaction with graphical method.   2

4. (a) Describe Eyring equation.   4
   (b) Write a note on temperature coefficient and its importance in kinetics.   2

5. (a) Define enzyme catalysis and acid-base catalysis.   3
   (b) Explain the application of Michaelis-Menten mechanism on enzyme catalysis.   3

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