

2021
B.A./B.Sc.
First Semester
CORE – 2
CHEMISTRY
Course Code: CHC 1.21
(Physical Chemistry - I)

PART-B
Total Mark: 30

Answer the following questions.

1. What is collision diameter? Derive the kinetic gas equation. 2+4=6
 2. (a) Why do real gas deviate from ideal behaviour? 3
(b) Determine the surface tension of a liquid by capillary rise method 3
 3. Discuss the seven crystal system of solid. 6
 4. What is common ion effect? Derive the relation between hydrolysis constant and degree of hydrolysis. 2+4=6
 5. What is Buffer solution? Give the derivation of Henderson equation. 2+4=6
-