

SUSHIL KAR COLLEGE
Practical Examination 2022
B.Sc. (Honours) (Semester- 1)
Subject Code - CEMA CC2

Date- 08.03.22

Full Marks - 6×5=30

Email Id – skc.cemasem1@gmail.com

Time - 10 AM – 12 PM

Write and submit your answers using the following guidelines:

- (i) Write University Roll Number , Registration Number and Paper Code on the top of the first page of your answer script.**
- (ii) Use A4 pages / or pages from similar sized notebooks with page numbers on each page.**
- (iii) The answer scripts are to be sent in a single file format in pdf. Multiple attachments are strictly prohibited.**
- (iv) The answer scripts are to be scanned/photographed and sent via the above said e-mail address by 1 PM.**

Answer all the following questions-

1. Write down the working formula and reactions involved in the study of kinetics decomposition of H_2O_2 .
2. Write down the definition of viscosity of a liquid and its SI units. What is the working formula involved in the study of viscosity of unknown liquid with respect to water.
3. What is solubility and solubility product of sparingly soluble salt? How do you determine the solubility of a sparingly soluble salt in water, in electrolyte with common ions and neutral electrolyte (using common indicator)
4. Define the unit poise. What is the effect of temperature and pressure on the viscosity of a given liquid?
5. Write down the order of acid catalyzed hydrolysis of methyl acetate and give explanation supporting your answer. Give the graphical representation of kinetics of acid catalyzed hydrolysis of methyl acetate and how one can calculate the rate constant?
6. Alcohols have higher boiling point than ethers, alkane & alkyl halides:-Explain and also Explain why lower members alcohol are soluble in water while higher members alcohol are not.