

2021
B.A./B.Sc. Semester II Honours Examination
University of Calcutta
CHEMISTRY
Paper CC4
PRACTICAL
F.M. 30

FAKIR CHAND COLLEGE CENTRE (551)

[Use A4 pages and black ink only for writing answers. Write Roll number and Registration number at the top and page number at the bottom of each page. Scan the current admit card and upload in a single pdf file along with the answer script]

1. Write the principle for the estimation of Vitamin C with working formulae and also write the reaction involve with this principle. 10

2. Answer all the questions: 2×10=20
 - a) Why is sodium thiosulphate a secondary standard?
 - b) Write the reactions involved in the dissolution of brass.
 - c) What is the role of starch in the iodine titrations?
 - d) Write the working formulae and reactions involved in the standardization of sodium thiosulphate using potassium dichromate solution.
 - e) What is the difference between iodometric and iodimetric titration?
 - f) What do you mean by available chlorine in bleaching powder?
 - g) Why is cement dissolution done in HCl medium?
 - h) 50 ml 0.05(N) sodium thiosulphate solution is required for 25 ml stock solution (Vitamin C). Calculate amount of Vitamin C in the stock solution in gm/lit.
 - i) Write the working formulae reaction for the standardization of potassium permanganate using standard oxalic acid solution.
 - j) What is Z-R reagent and in which titration it is used?