

Gurudas College
Internal Examination, 2020
CHEMISTRY(Honours)
BSc. Part II (1+1+1 System)
Paper IV
Group B (Practical)

Time=2hrs

F.M.=25

Answer any 5 questions

(5x5=25)

- 1) How many electrodes does a conductivity cell have? What is the function of a salt bridge?
- 2) Draw the conductometric titration curve for titrating a mixture of HCl and KCl with AgNO₃ solution.
- 3) Write down the Henderson equation regarding an acid buffer (such as Acetic acid and Sodium Acetate)
- 4) Suggest two instrumental processes for titrating KCl solution using known strength of AgNO₃ solution.
- 5) What is Reinhardt's solution? Give its composition and role of each components.
- 6) Write the structural formula of vitamin-C. Write the reaction of vitamin-C with the iodine.
- 7) Write the roles of potassium/ammonium peroxydisulphate and silver nitrate in the estimation of Cr³⁺ in (Cr³⁺ + Fe³⁺) mixture.
- 8) Depict the chelate complex structure of Mg-EDTA.