KARIMPUR PANNADEVI COLLEGE

UG 3rd Semester Examination 2022

Internal Assessment

CHEMISTRY [HONOURS]

Course Code: HCC-T-5 (Physical)

Full Marks: 10

Answer any five questions from the following: [2x5=10]

i) What is the SI unit of viscosity? What is the relation between SI and CGS unit of viscosity?

ii) Write down the Poiseuille's equation about viscosity indicating the meaning of all symbols used in the equation.

iii) Write the principle of viscosity measurement by falling sphere method.

iv) State Newton's law of viscosity. What is non-Newtonian fluid?

v) Write the SI unit of equivalent conductance and cell constant.

vi) Draw the conductometric titration curves for the following titrations: a) CH_3COOH with NaOH b) HCl with NaOH.

vii) State the assumptions considered in Poiseuille's equation.