U.G. 3rd Semester Examination - 2020

CHEMISTRY

[HONOURS]
Course Code : CHEM-H-CC-P-05
[PRACTICAL]

Full Marks : 20   Time : 2 Hours
The figures in the right-hand margin indicate marks.

Answer any **four** questions from the following: 5×4=20

1. a) State "Nernst Distribution Law" and define Partion co-efficient from this law.   2+1=3

    b) Give two limitations of Nernst Distribution law.
                                                                2

2. a) Define viscosity and mention its SI unit.
                                                        2+1=3

    b) How viscosity of gases and liquids depends on temperature?   2

3. a) What is the basic principle of conductometric titration?   1

    b) Show the nature of conductometric titration curves of the following titrations:

        i) CH_3COOH Vs. NaOH solution

        ii) CH_3COOH Vs. NH_4OH solution

        Give reasons in each case.   4

4. State Ostwald's dilution law. "Degree of dissociation of CH_3COOH increases with dilution"—Explain.
                                                        2+3

5. a) You are supplied with a 12% (v/v) stock solution of glycerol. How will you prepare 50ml each of 9%, 6% and 3% solutions by quantitative dilution in water?   1+1+1=3

    b) What do you mean by saponification reaction? Give one suitable example.   1+1=2

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