BACHELOR OF SCIENCE in CHEMISTRY (HONS) SEMESTER – III

Physical Chemistry Practical Paper Code: CH-303P

CH-303P: PHYSICAL CHEMISTRY

PRACTICAL: 25 Marks 45 Hours

1. Surface tension measurements (use of organic solvents excluded) Determine the surface tension by

- (i) drop number
- (ii) drop weight method.
- 2. Viscosity measurement:

(a) Viscosity measurement of given liquids using Ostwald's viscometer (at room temperature)

(b) Study the effect of variation of viscosity of an aqueous solution with the concentration of solute.

3. pH measurements

- (a) Measurements of pH of different solutions using pH-meter.
- (b) Preparation of buffer solutions
- (i) Sodium acetate-acetic acid
- (ii) Ammonium chloride-ammonium hydroxide

Measurement of the pH of buffer solutions and comparison of the values with theoretical values.

- (c) pH metric titrations of
- (i) strong acid and strong base
- (ii) weak acid and strong base Any other experiment carried out in the class.
