C.U.SHAH UNIVERSITY Summer Examination-2019

Subject Name: Physical Pharmaceutics II - Theory Subject Code: BP403T **Branch: B.Pharm** Semester: 4 Date: 22/04/2019 Time: 02:30 To 05:30 Marks: 75 Instructions: (1) Use of Programmable calculator & any other electronic instrument is prohibited. (2) Instructions written on main answer book are strictly to be obeyed. (3) Draw neat diagrams and figures (if necessary) at right places. (4) Assume suitable data if needed. Q-1 Attempt the following questions: (20)Briefly explain protective colloidal action. Α 2 B Briefly explain Newton's law of flow with its equation. 2 С Discuss the factors affecting viscosity. 2 2 D Give ideal properties of suspension. Ε Differentiate flocculated and deflocculated suspension. 2 F What are the types of emulsion? 2 G What is Micromeritics? 2 Η **Explain Particle Number.** 2 2 Ι Define Half life and Shelf life. J 2 Explain Pseudo zero order reaction. Attempt the following questions: Q-2 Attempt any two of following: (20)Explain Lyophilic, Lyophobic and Association colloids. A 10 Explain non Newtonian type of flow with rheograms, mechanism and 10 B suitable examples. Explain the formulation of suspension. 10 C Attempt any Seven of following: Q-3 (35) Discuss the optical and kinetic properties of the Colloids. 5 A 5 B Write a note on Thixotropy (Gel-sol-Gel Phenomena) Classify various viscometers for measurement of viscosity. Describe any 5 С one viscometer to find out viscosity of non Newtonian fluids. Explain Stoke's law for sedimentation. 5 D 5 Write a note on physical stability of emulsion. E 5 F Explain Coulter counter method for determining particle volume. G Write a note on Derived properties of powders. 5 Explain Hydrolysis as chemical degradation and its preventive measures. 5 Η Ι Write a note on accelerated stability study. 5

