

C.U.SHAH UNIVERSITY**Winter Examination-2018****Subject Name:** Modern Pharmaceutics**Subject Code:** MPH103T**Branch:** M.Pharm (Pharmaceutics)**Semester:** 1**Date:** 30/11/2018**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.

Q-I Explain briefly the following: (20)

- | | |
|---------------------------------|-------------------------------|
| a. Objectives of Preformulation | b. Calibration |
| c. Common ion effect | d. Installation qualification |
| e. Zeta potential | f. Budget |
| g. Kawakita equation | h. -Optimization |
| i. Creaming | j. Diffusion |

Q-II Long Answer (Answer any two) (20)

- a. Discuss the characterization of Self Micro Emulsion Drug Delivery System (SMEDDS). (10)
- b. Describe optimization techniques in pharmaceutical formulation and processing of solid-unit dosage form. (10)
- c. Explain in detail dissolution and pharmacokinetics parameters. (10)

Q-III Short Answer (Answer any seven) (35)

- a. Describe accelerated stability study. (5)
- b. Explain Blow Fill and Seal (BFS) technology. (5)
- c. Describe the techniques of inventory control. (5)
- d. Discuss dissimilarity and similarity factors. (5)
- e. Write the validation of rapid mixer granulator. (5)
- f. Explain pyrogen test. (5)
- g. Write the factors influencing the compaction of Pharmaceutical powders. (5)
- h. Describe force-displacement profile. (5)
- i. Write a note on total quality management. (5)

