

C.U.SHAH UNIVERSITY**Summer Examination-2019****Subject Name:** Modern Pharmaceutics**Subject Code:** MPH103T**Branch:** M. Pharm (Pharmaceutics)**Semester:** 1 **Date:** 16/03/2019**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.

Q-I Explain briefly the following: (20)

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|----------------------|-------------------------------|
| a. Chi square test | b. Factorial designs |
| c. Common ion effect | d. Installation qualification |
| e. Pyrogen test. | f. Standard deviation |
| g. T-test | h. Compression |
| i. ANOVA | j. Consolidation |

Q-II Long Answer (Answer 2 out of 3) (20)

- a. Discuss the Optimization techniques use in Pharmaceutical Formulation (10)
- b. Describe accelerated stability studies with its limitations. (10)
- c. Describe layout of Pharmaceutical tablet and parenteral department. (10)

Q-III Short Answer (Answer 7 out of 9) (35)

- a. Write a note on Objectives of Preformulation. (5)
- b. Discuss the Concept of Total Quality Management. (5)
- c. Discuss dissimilarity and similarity factors. (5)
- d. Explain Blow Fill and Seal (BFS) technology. (5)
- e. Briefly explain the characterization of SMEDDS. (5)
- f. Write a note on LVP. (5)
- g. Write the validation of rapid mixer granulator. (5)
- h. Briefly explain students T-test and ANOVA test. (5)
- i. Discuss scope and applications of validation (5)

