

# Question Paper

Exam Date & Time: 04-Dec-2017 (02:00 PM - 05:00 PM)



**MANIPAL ACADEMY OF HIGHER EDUCATION**

**MANIPAL COLLEGE OF PHARMACEUTICAL SCIENCES  
END SEMESTER THEORY EXAMINATIONS - NOVEMBER 2017**

**PROGRAM : MPHARM SEMESTER I**

**DATE : 04-12-2017**

**TIME : 2:00PM - 5:00PM**

**Modern Pharmaceutics [PCE-MPH103T]**

**Marks: 50**

**Duration: 180 mins.**

**Answer all the questions.**

**Answer the following (5 marks x 8 = 40 marks)**

- 1) Enlist various test to evaluate emulsion. Explain any 2 tests briefly. (5)
- 2) Define cost control & explain the techniques of cost control. (5)
- 3) Explain compaction profile with the help of a graph. (5)
- 4) Enlist six methods to increase drug solubility and explain any one method. (5)
- 5) Using difference and similarity factors explain the comparison of drug release profiles. (5)
- 6) Describe reflection, expansion and contraction phenomena in simplex method of optimization. (5)
- 7) Discuss the model dependent approach to analyze drug release kinetics using korsmeyer-peppas model. (5)
- 8) Explain the process of revalidation. (5)

**Answer the following with specific answers (2 marks x 5 = 10 marks)**

- 9) Enlist the stages of tablet compression. (2)
  - A)
  - B) Define cold welding and fusion bonding. (2)
  - C) Define and Classify emulsion. (2)

- D) Discuss PQ in equipment qualification. (2)
- E) Describe the types of problems in optimization. (2)

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