

Question Paper

Exam Date & Time: 29-Nov-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 1

DATE: 29/11/2017

TIME: 2:00PM - 5:00PM

Pharmaceutical Formulation Development [PCE-MIP102T]

Marks: 50

Duration: 180 mins.

Answer all the questions.

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

- 1) Discuss on evaluation of organoleptic properties of an API during pre-formulation stage. (5)
- 2) Explain the principle of thermo-gravimetric analysis. (5)
- 3) Explain the phase solubility diagram. (5)
- 4) Mention any five approaches to obtain sink condition in dissolution study. (5)
- 5) Enlist any THREE excipients used commonly in sterile preparations. Discuss important points to be considered while deciding Tonicity for sterile product. (5)
- 6) Define Dissolution. Give any four importance of dissolution studies. (5)
- 7) What is the importance of stability studies? Briefly explain significant change in a stability study. (5)
- 8) Discuss briefly about stability protocols and data reporting. (5)

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

- 9) Classify the chemical compound based on crystal habit and internal structure. (2)
 - A)
 - B) Oral administration is the most convenient and commonly (2)

employed route of drug delivery. Why?

- C) Mention any two reasons for the dissolution study of dosage forms. (2)
- D) Mention any two strategies employed for formulating poorly soluble drugs as parenteral preparations. (2)
- E) Give any two importance of degradation kinetics (2)

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