Roll No. ☐☐☐☐☐☐☐☐☐☐   Total No. of Pages : 02

Total No. of Questions : 06

M.Pharmacy (Pharmaceutics) (2017 & Onwards)   (Sem.–1)
MODERN PHARMACEUTICS
Subject Code : MPH-103T
M.Code : 74659

Time : 3 Hrs.   Max. Marks : 75

INSTRUCTIONS TO CANDIDATES :

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1. Attempt any FIVE questions out of SIX questions.
2. Each question carries FIFTEEN marks.

1. a) Discuss the formulation factors to be considered while formulating small volume injectables.

   b) What is Contour Design and its application? Give an account of the steps involved in applying this design for formulation optimization.

2. a) Differentiate between prospective and retrospective validation and highlight the situations in which they are applied.

   b) Critically comment on the pre formulation studies conducted for pharmaceutical suspensions.

3. a) Highlight the cGMP norms for inventory maintenance of raw materials, containers, closures, labels and finished goods in pharmaceutical plant.

   b) How is TQM applied to pharmaceutical industry?

4. a) What is diffusion? Enlist the parameters of diffusion and mention their importance in dosage form development.

   b) Explain the distribution of forces during compaction of solids.

5. a) Draw a typical urinary excretion vs time plot for a drug obeying one compartment open model. Indicate various pharmacokinetic parameters in this plot and explain each of them.

    b) Explain the "Korsmeyer Peppas Equation" and its relation to drug release.

6. Write short notes on :

    a) Student t-test

    b) Linearity

    c) Essential components of cost control

NOTE : Disclosure of Identity by writing Mobile No. or Marking of passing request on any paper of Answer Sheet will lead to UMC against the Student.