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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 :**INSTRUCTIONS TO CANDIDATES :**

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

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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.