Roll No. | | | | | | | | | | | | |

Total No. of Pages : 01

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M.Pharmacy (Pharmaceutics) (2017 Batch) (Sem.–2)

ADVANCED BIOPHARMACEUTICS & PHARMACOKINETICS

Subject Code : MPH-202

M.Code : 74962

Time : 3 Hrs. Max. Marks: 75

INSTRUCTIONS TO CANDIDATES :

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

1. a) Discuss the physico-chemical factors influencing drug dissolution from dosage forms. (7.5)

   b) Give an account of Tight Junction Complex and its role in drug transport through the intestine. (7.5)

2. a) Explain pH-partition hypothesis for predicting drug absorption. (7.5)

   b) Give an account of IVIVC methods and their utility. (7.5)

3. a) Distinguish one compartment from two compartment model. Derive a simple equation for predicting the plasma drug concentration for one compartment open model after IV bolus injection. (7.5)

   b) Write a note on CyP 450 based interactions. (7.5)

4. a) What are biosimilars? Briefly explain biosimilars and their general compendial requirements. (7.5)

   b) Give an account of the study designs used for bioequivalence assessment of drug products. (7.5)

5. a) What is non-linear pharmacokinetics? Mention the reasons for this behavior with suitable examples. (7.5)

   b) Discuss briefly the methods used for assessing permeability of drug molecules in vitro. (7.5)

6. Write short notes on :

   a) Generic substitution with examples (5)

   b) Pharmacokinetics of peptides (5)

   c) Immunotherapy and its modules (5)

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