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Total No. of Pages : 02

Total No. of Questions : 10

B.Pharma (2012 to 2016) (Sem.-8)
PHARMACEUTICS-IX (DOSAGE FORM DESIGN)

Subject Code : BPHM-801

M.Code : 72296

Time : 3 Hrs.

Max. Marks : 80

INSTRUCTIONS TO CANDIDATES :

1. SECTION-A is COMPULSORY consisting of FIFTEEN questions carrying TWO marks each.
2. SECTION-B contains FIVE questions carrying FIVE marks each and students have to attempt any FOUR questions.
3. SECTION-C contains FOUR questions carrying TEN marks each and students have to attempt any THREE questions.

SECTION-A**1. Answer briefly :**

- a. Describe the role of solubility in preformulation studies.
- b. Define bioequivalence.
- c. Define polymorphism.
- d. Define dissolution.
- e. Define bioavailability.
- f. Name any two drugs prone to hydrolysis.
- g. Define solvates.
- h. Name any two drugs prone to oxidation.
- i. Explain hydrates.
- j. Define prodrugs.



- k. Discuss the importance of student's T test.
- l. Name any two approaches for solubility enhancement.
- m. Define absolute and relative bioavailability.
- n. What are controlled release dosage forms?
- o. What are biodegradable polymers?

SECTION-B

- 2. What are the polymers used for enteric coated tablets? Discuss the in vitro testing of enteric coated tablets.
- 3. Discuss various factors affecting the oxidation of drugs.
- 4. What is BCS? Discuss various classes along with suitable example.
- 5. What are the prominent features of quality assurance?
- 6. Explain the rationale for retrospective validation. Also, discuss the process briefly.

SECTION-C

- 7. Discuss preformulation studies. Enlist the various properties of the drugs to be considered while performing the preformulation studies.
- 8. Discuss the ICH guidelines for accelerated stability studies.
- 9. Classify oral controlled release drug delivery system.
- 10. Explain the application of prodrugs in various pharmaceutical fields.

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.