

Printed Pages : 2



PHARM485(2)

(Following Paper ID and Roll No. to be filled in your Answer Book)

**PAPER ID : 150859**

Roll No.

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**B.Pharm.**

(SEM VIII) THEORY EXAMINATION, 2014-15

**DRUG DESIGN**

Time : 3 Hours]

[Total Marks : 80

**Note:** Attempt all questions. Each question carries equal mark.**1** Attempt **any two**. **8×2**

- (A) Discuss the various forces involved in drug receptor interaction.
- (B) Define Bioisosterism. Discuss in detail with suitable example.
- (C) Illustrate the different physicochemical properties in relation to their biological action.

**2** Attempt **any two**. **8×2**

- (A) Discuss the concept of prodrug in detail in relation to drug design with suitable example.
- (B) Write about the concept of drug designing on the basic metabolic pathways.
- (C) Differentiate between Phase I and Phase II reactions. Discuss the various reactions of Phase II in detail.

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[ Contd...

- 3** Attempt **any two**. **8×2**
- (A) What is concept of analogue based drug design and explain lead modification to get clinical drug with example.
- (B) Outline the fundamental principle of structure based drug design.
- (C) Discuss the general factors that need to be considered when designing a drug.
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- 4** Attempt **any two**. **8×2**
- (A) What do you mean by parallel synthesis in combinatorial chemistry and discuss the parallel synthesis of all 27 tripeptides from 3 amino acids?
- (B) Explain Computer Aided Drug Design. Give some software used in CADD.
- (C) What do you mean by combinatorial chemistry and discuss about the mixed and split method.
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- 5** Attempt **any two**. **8×2**
- (A) Illustrate the different physicochemical parameters which have been studied by QSAR approach
- (B) Attempt **any two** :
- (i) Software used in QSAR
- (ii) Basic concept of QSAR
- (iii) Applications of QSAR.
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