

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.
- 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.
- 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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