KNT/KW/16/6571

B.Pharm. Sixth Semester (C.B.S.) Examination

PHARMACEUTICAL MEDICINAL CHEMISTRY—II

Paper—2 (6T2)

Time : Three Hours] [Full Marks : 80

N.B. :— (1) Question No. **1** is compulsory.
(2) Solve any **FOUR** questions from the remaining.
(3) Draw neat labelled diagram wherever necessary.
(4) Discuss the reaction, mechanism wherever necessary.
(5) Use of electronic calculator is permitted
(6) Assume suitable data wherever necessary

1. Solve any **FOUR** questions of the following :
   (a) Major limitation of sulfonamides is crystalluria. What are the different ways to overcome this limitation ?
   (b) Explain chemistry and uses of polypeptide antibiotics.
   (c) Write a brief note on computer aided drug design.
   (d) Write chemical structure, name, synthesis and uses of chloramphenicol.
   (e) Explain the role of various plant products as anticancer therapy. 4×5=20
2. (a) Write detailed classification of antimalarial drugs with examples, chemical structures and mechanism of action. 10
   (b) What is amebiasis ? Write medicinal chemistry of drug therapy used in amebiasis. 5
3. Give life cycle of virus. What are the different drugs acting at various stages of virus life cycle ? 15
4. Write classification of β-lactam antibiotics and discuss its chemistry and uses. 15
5. (a) Describe structure activity relationship of tetracyclines. 8
   (b) Give the various drugs of azole chemical class having antifungal activity. 7
6. (a) What is quantitative structure activity relationship ? Give its significance in drug design. 6
   (b) Classify the alkylating agents with chemical structures. 9
7. Write notes on any **THREE** of the following :
   (a) Anthelmentics
   (b) Importance of combinatorial chemistry
   (c) Introduction to genetic engineering
   (d) Theoretical consideration of quantitative structure activity relationship. 15

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