

**Sixth Semester Examination for the Degree
of Bachelor of Pharmacy**

PHARMACEUTICAL MEDICINAL CHEMISTRY - II

Paper – 6 T 2

Time : Three Hours]

[Max. Marks : 80

- N. B. : (1) Question no. 1 is compulsory.
 (2) Solve any **four** questions from the remaining.
 (3) Draw neat labeled diagram wherever necessary.
 (4) Discuss the reaction, mechanism wherever necessary.
 (5) Assume suitable data wherever necessary.

1. Solve any **Five** of the following :—

- (a) Write in detail chemistry of tetracycline antibiotics.
 (b) Describe malaria life cycle in detail.
 (c) Write a brief note on antimetabolites.
 (d) Write chemical name structure and synthesis of Idoxuridine.
 (e) Discuss SAR of chloramphenicol antibiotics.
 (f) Write in brief about anthelmintics agents.
 (g) Explain computer aided drug designing. 20

2. Classify antibiotics with examples and structure and give uses of one drug from each class. Discuss stability of β -Lactam antibiotics in acidic condition and outline synthesis of Ampicillin. 15

3. (a) Give classification of antimalarial agent and discuss SAR of 4-amino quinoline derivatives. 8

(b) What is crystal urea ? How it is prevented ? Explain with examples. 7

4. What are antineoplastic agent ? Give classification. MOA and uses of antineoplastic agents and outline synthesis of chlorambucil. 15

5. (a) Give classification of antimycobacterial agent. Explain rationale of combinations used in therapy. Give any one synthesis from it. 8

(b) Classify antiviral drugs with examples. Discuss drugs use in AIDS. 7

6. (a) What is Genetic Engineering ? Give its application in pharmaceutical formulations. 8

(b) Give detail account of molecular modeling in drug design. 7

7. Write notes on any **three** of the following :—

(a) Antifungal Agent.

(b) Antiamoebic Agent.

(c) Types of QSAR.

(d) Antiseptic and Disinfectant. 15