

B.Pharm. Sixth Semester (C.B.S.) Examination
PHARMACEUTICAL MEDICINAL CHEMISTRY—II
Paper—2

Time : Three Hours]

[Maximum Marks : 80

- N.B. :—** (1) Question No. 1 is compulsory.
(2) Attempt any **FOUR** questions out of remaining.
(3) All questions carry marks as indicated.
(4) Draw neat labeled diagram wherever necessary.
(5) Discuss the reaction, mechanism wherever necessary.

1. Solve any **FIVE** of the following :

- (a) Discuss in brief about macrolide antibiotics.
- (b) Outline the life cycle of malaria parasite.
- (c) Write chemical name, uses and synthesis of Isoniazid.
- (d) Write in brief about antiamoebic agents.
- (e) Discuss the SAR of chloramphenicol antibiotics.
- (f) Write mode of action of sulphonamide.
- (g) Write computer aided drug designing. 20

2. Define and classify antibiotics with suitable example and structure of one drug from each class. Discuss stability of β -Lactum antibiotics in acidic condition and outline the synthesis of Ampicillin. 15

3. (a) What is DOT Therapy ? Write in detail about mode of action and chemical classification of antileprotic agents. 7

(b) Write chemical classification and mode of action of antifungal agents. 8

4. What are anti-cancer drugs ? Classify chemically anti-cancer agents and discuss about their mode of action and toxicity. Give synthesis of any one drug from it. 15

5. (a) What is Genetic Engineering ? Give its application in pharmaceutical formulations. 7

(b) Classify anti-viral drugs with suitable example. Discuss drugs used in AIDS. 8

6. (a) Give classification of anti-malarial agent and discuss SAR of 4-amino quinoline derivatives. 7

(b) What is crystal urea ? How it is prevented ? Explain with example. 8

7. Write notes on any **THREE** of the following :

- (a) Type of QSAR
- (b) Lincomycins
- (c) Combinatorial chemistry
- (d) Chemistry of tetracycline antibiotics. 15