

NRT/KS/19/3174

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 questions.

(3) All questions carry marks as indicated.

(4) Draw neat labelled diagrams wherever necessary.

(5) Discuss the reaction, mechanism wherever necessary.

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

(a) Write structure, IUPAC name and synthesis of Dapsone.

(b) Give synthesis and uses of Isoniazid and Pyrazinamide.

(c) Write about nitroimidazole as antiamoebic.

(d) Give structure, IUPAC name, mode of action and uses of chloramphenicol.

(e) Classify cephalosporins with suitable example.

(f) Write in brief about anthelmintic agents.

(g) Write about combination therapy used in tuberculosis.

5×4=20

2. (a) Give the SAR of Tetracyclines.

8

(b) Write about degradations of Penicillin.

7

3. Describe life cycle of malarial parasite. Give the chemical classification of antimalarial agents and write the synthesis of chloroquine phosphate.

15

4. Explain in detail, various physiochemical properties which affects drug action.

15

5. Classify antineoplastic agents. Elaborate on Alkylating agents and outline the synthesis of chlorambucil.

15

6. (a) Give the classification and mode of action of sulfonamides.

8

(b) Describe Antifungal agents. Give the synthesis and uses of Clotrimazole.

7

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

(a) CADD in Lead optimization

(b) Aminoglycosides antibiotics

(c) Role of combinatorial chemistry in Drug Design

(d) Antiviral agents.

5×3=15