

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

**PHARMACOLOGY - IV**

**Paper – 6 T 3**

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 mechanism of action of any two class of antifungal agents.
- (b) Enlist various immunostimulants with their uses.
- (c) Discuss various designs used in clinical trials.
- (d) Justify the use of Rifampicin in TB.
- (e) Discuss mechanism of action of any two anthelmintic agents.
- (f) Role and Responsibilities of Health professionals in management of clinical trials.
- (g) Write various mechanisms of development of microbial resistance. 4x5=20

2. What are general principles of cancer chemotherapy. Classify anticancer agents. Discuss mode of action and adverse effects of any two classes of anticancer drugs. 15

3. (a) Explain the life cycle of malarial parasite. Discuss pharmacotherapy of malaria. 10

- (b) Write note on Antiviral agents. 5

4. (a) What is Diabetes mellitus. Justify the use of oral hypoglycemics in treatment of type II diabetes. 10

- (b) Write about antithyroid drugs. 5

5. (a) Write a detailed account on B lactam antibiotics. 10

- (b) Discuss about drug treatment of leprosy. 5

6. Explain mechanism of action, adverse effects and uses of following (any **three**) :—

- (a) Pioglitazone

- (b) Ciprofloxacin

- (c) Methotrexate

- (d) Streptomycin

- (e) Metformin. 5x3=15

7. Write short note on following (any **three**) :—
- (a) Immunosuppressant agents.
  - (b) Anabolic steroids.
  - (c) ICH-GCP guidelines for clinical research.
  - (d) Antiamoebic agents.
  - (e) Role of macrolides and aminoglycosides in microbial infections. 5×3=15