

**B. Pharm. Semester-VI (C.B.S.) Examination**  
**PHARMACOLOGY-IV**  
**Paper-3**

Time : Three Hours]

[Maximum Marks : 80

**N.B. :—** (1) Question No. **1** is compulsory.

(2) Attempt any **FOUR** questions out of remaining.

(3) Draw neat labelled diagram wherever necessary.

1. Explain the pharmacology of the following drugs (any **FIVE**) :

- (a) Metrotrexate
- (b) Isoxiazid
- (c) Chloroquine
- (d) Imatinib
- (e) Pioqlitazone
- (f) Mefloquine
- (g) Cefepime.

4×5=20

2. (a) Explain the mechanism of action, pharmacokinetics, therapeutic uses and adverse effect of anti-thyroid drugs. 10

(b) Write a note on thyrotoxicosis. 5

3. Explain different phases of clinical trials in detail. Discuss phase 'O' clinical trial. 15

4. Differentiate between normal cell and cancer cell. Classify different anti-cancer agents and explain their mechanism of actions, clinical uses and adverse effects. 15

5. What is clinical difference between penicillin and cephalosporin ? Clasify different cephalosporins according to their generation. Explain their anti-bacterial spectrum, clinical uses, side effects and contra-indications. 15

6. (a) Explain in detail pharmacological profile of immunosuppresants. Add a note on precautions to be taken during immunosuppresant therapy. 10

(b) Write a short note on anti-fungal agents. 5

7. Write a short note on any **THREE** of the following :

- (a) Inclusion and exclusion criteria of clinical trial
- (b) Anabolic steroids
- (c) DNA gyrase inhibitors
- (d) Toxicity of Amino-glycoside and its therapy.

3×5=15