

**B.Pharm. Semester—VI (C.B.S.) Examination****PHARMACOLOGY—IV****Paper—3 (6T3)**

Time : Three Hours]

[Full Marks : 80

**N.B. :-** (1) Question No. 1 is compulsory.(2) Solve any **FOUR** questions from the remaining.

1. Solve any **five** of the following : 20
  - (a) Why probenecid is administered with penicillin ?
  - (b) Write examples of antithyroid drugs and their therapeutic uses.
  - (c) Explain inclusion and exclusion criteria in clinical trials.
  - (d) Write mode of action and adverse effects of aminoglycoside antibiotics.
  - (e) Enlist first line and second line drugs used in treatment of tuberculosis.
  - (f) Write job responsibilities of CRO.
  - (g) Write functions of :
    - (i) Parathyroid hormone
    - (ii) Calcitonin.
2. (a) Describe in detail pharmacology of insulin. 10  
(b) Classify various oral hypoglycemic agents and explain their mode of action. 5
3. (a) Classify  $\beta$ -lactum antibacterial and write its mechanism of action. 5  
(b) Write spectrum, therapeutic used and adverse effects of various classes of penicillins. 10
4. Classify antineoplastic agents according to their mode of action. Explain in detail pharmacology of alkylating agents. 15

5. (a) Explain the cycle of malarial parasite. Write in brief about drugs acting on these different phases. 10
- (b) Write note on systemic antifungal agents. 5
6. (a) Describe various designs of clinical trials with advantages and disadvantages. 10
- (b) Write in brief about Immunosuppressants. 5
7. Write short notes on any **two** : 15
- (a) Glucocorticoids
- (b) Anti-viral drugs
- (c) ICH guidelines for clinical trials.