

B. Pharm. Third Semester (C.B.S.) Examination
PHARMACOLOGY—I
Paper—4

Time : Three Hours]

[Maximum Marks : 80

- N.B.** :— (1) Questions No. **1** is compulsory.
 (2) Attempt any **FOUR** questions from the remaining.
 (3) Draw neat labelled diagram wherever necessary.

1. Attempt any **FIVE** :— 5×4=20
 - (a) Discuss the basic principles of drug action.
 - (b) Justify the use of corticosteroids in myasthenia gravis.
 - (c) Define, classify and give applications of bio-assay.
 - (d) Explain specialised transport across cell membrane.
 - (e) Explain the term drug potency, drug efficiency and drug selectivity.
 - (f) Explain the consequences of microsomal enzyme induction.
2. Explain the biotransformation with their reactions in detail. 15
3. (a) Classify routes of administration and write in brief about each. 10
 (b) Explain about receptor occupancy theory. 5
4. Give the therapeutic classification of adrenergic drugs; explain the pharmacology of amphetamine and give the therapeutic uses of adrenergic drugs. 15
5. Discuss the transducer mechanisms and explain about G-protein coupled receptor mechanism. 15
6. (a) Classify and explain about ganglionic blocking agents. 5
 (b) Explain Cholinergic transmission and discuss Pharmacology of at least two cholinergic drugs. 10
7. Write short notes on any **THREE** :—
 - (a) Combined effect of drugs
 - (b) Anticholinesterases mechanism of action
 - (c) Tolerance and idiosyncrasy
 - (d) Clinical uses of atropine. 15