

NTK/KW/15/6984

Faculty of Pharmacy

B.Pharm. Third Semester (C.B.S.) Examination

PHARMACOLOGY—I

Paper—IV

Time : Three Hours]

[Full 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.

1. Solve any **FIVE** :

(a) Discuss various mechanisms of drug transport across cell membrane. 4

(b) How does bioavailability affects pharmacokinetics ? 4

(c) What is agonist, inverse agonist, and competitive and non-competitive antagonist ? 4

(d) Discuss pharmacological activities of Atropine. 4

- | | | | |
|--|----|---|----|
| (e) Mention location and biological actions mediated by muscarinic receptors. | 4 | (b) Discuss the factors affecting excretion of drugs. Comment on physiological barriers. | 7 |
| (f) Discuss the mechanism of amphetamine as stimulant. | 4 | 6. (a) Discuss the pharmacological details of Tertiary amines. | 7 |
| (g) Enumerate pharmacological properties of physostigmine. | 4 | (b) Discuss various competitive ganglionic blockers with special emphasis on hexamethonium. | 8 |
| 2. (a) Discuss the pharmacological actions of B adrenergic blockers. Explain the mechanism, pharmacological actions and side effects of pilocarpine. | 10 | 7. Short notes (any two) : | |
| (b) Discuss the pharmacology of drugs used in glaucoma. | 5 | (a) Types of Bioassay | |
| 3. (a) Discuss the pharmacological actions of Sympathomimetics with special emphasis on dopamine. | 10 | (b) Drug metabolism | |
| (b) Discuss pharmacology of pseudoephedrine. | 5 | (c) Nicotine. | 15 |
| 4. (a) Explain the mechanism of different allergic reactions. Discuss idiosyncrasy with example. | 8 | | |
| (b) Explain the drug-receptor interactions with suitable examples. | 7 | | |
| 5. (a) Discuss various factors affecting drug absorption in detail. How does protein binding affects excretion of drugs ? | 8 | | |