

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

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