

UKA TARSADIA UNIVERSITY

M.Pharm. (Pharmacology) (1st Semester)

Subject :040050103 - Advances in Pharmacology

Duration: 3 Hours

Max. Marks: 70.

Instructions:

1. Attempt all questions.
2. Write each section in a separate answer book.
3. Make suitable assumptions wherever necessary.
4. Figures to the right indicate full marks allocated to that question.
5. Draw diagrams/figures whenever necessary.

Section-1

Q-1 (A) Do as directed (Enumerate two examples of following drug class/disease) [07]

- I) Drugs for closed angle glaucoma
- II) Alpha-1 selective blockers
- III) Nicotine (M)-receptors antagonists
- IV) Selective H₁ receptors antagonists
- V) Drugs used in cold
- VI) Selective 5-HT (1B/1D) agonists
- VII) Immunosuppressant drugs

Q-1 (B) Write Mechanism of actions and uses of Any 4 drugs in brief [08]

- I) Tamsulosin
- II) Cyproheptadine
- III) Ondansetron
- IV) Cetrizine
- V) Latanoprost
- VI) Phenylephrine

Q-2 Answer the following. [10]

A) Describe pharmacological actions and uses of Adrenaline

OR

A) Pharmacological actions, mechanism and uses of cyclophosphamide

B) Describe pharmacological actions and uses of Atropin

OR

B) Give examples of cardio-selective beta-blocker drugs. Add a note on Metoprolol

Q-3 Answer the following in detail. (Any 2) [10]

- A) Treatment of open angle glaucoma
- B) Treatment of Migrain
- C) Treatment for organophosphorus poisoning

Section-2

Q-4 (A) Do as directed (Enumerate two examples of following drug class/disease). [07]

- I) Glycopeptide antibiotics
- II) Lincosamide antibiotics
- III) Macrolide antibiotics
- IV) Polyene antibiotics
- V) Polypeptide antibiotics
- VI) Fourth generation antibiotics
- VII) Flouroquinolones

Q-4 (B) Write mechanism of action and uses of following drugs (Any 4). [08]

- I) Paclitaxel
- II) Ivermectin
- III) Methotrexate
- IV) Artesunate
- V) Zidovudine
- VI) Amphotericine-B

Q-5 Answer the following. [10]

A) Mechanism of action, uses and adverse effects of Streptomycin

OR

A) Mechanism of action, uses and adverse effects of Dapsone

B) Mechanism of action, uses and adverse effects of Chloramphenicol

OR

B) Mechanism of action, uses and adverse effects of cefpodoxime

Q-6 Answer the following in detail. (Any 2) [10]

A) Classify alkylating agents. Add a note on pharmacology of Doxorubicine

B) Classify anti-malarial drugs. Add brief note on chloroquine

C) Mechanism of action, uses and adverse effects tetracyclins.