



Subject : Pharmacology

Paper – I

Full Marks : 40

Time : 2 hours

Use Separate answer script for each group

Attempt all questions. The figures in the margin indicate full marks

Group – A

1. (a) Outline the therapeutic regimen for a case of acute severe bronchial asthma. Enumerate the drugs used in the prophylactic therapy of bronchial asthma. Why is the inhalation therapy preferred over oral medication in bronchial asthma ? 6+2+2

Or

- (b) Enumerate drugs used in the treatment of acute congestive and chronic simple glaucoma. Discuss the mechanism of action of Pilocarpine in wide and narrow angle glaucoma. How Timolol reduces intra-ocular pressure ? 4+4+2

Group – B

2. Explain why (any three) : 3 x 3
- a) Furosemide is used in acute left ventricular failure.
 - b) Desferrioxamine is used in iron poisoning.
 - c) Low dose aspirin is used as anti platelet agents.
 - d) Plasma concentration of some drugs need to be monitored therapeutically.

Group – C

3. Discuss the mechanism of action of (any three) : 3 x 3
- a) Atropine Sulphate as mydriatic and cycloplegic agent.
 - b) Thiazides as antihypertensive agent.
 - c) Tamsulosin in benign hypertrophy of prostate.
 - d) Clopidogrel as anti platelet agent.

Group – D

4. Write short notes on (any four) : 4 x 3
- a) Partial agonist and Inverse agonist
 - b) Drug Synergism
 - c) Pharmacovigilance
 - d) First pass Metabolism
 - e) Essential drugs.