



PHARMACOLOGY

Paper – I

Time allowed : 2 Hours

Full Marks : 40

Use Separate answer script for each group

Attempt all questions.

The figures in the margin indicate distribution of marks in each questions

Group – A

1. (a) What are the different routes of drug administration? What are the advantages and disadvantages of intravenous routes of drug administration? What is meant by "First-pass metabolism"? 4+2+2+2
Or
(b) An eight-year old boy arrives at the emergency ward with severe respiratory distress and wheezing. Outline the drug management that would provide relief to the boy (with brief mechanism of such action and two common adverse effects for each drug). What drugs would you prescribe to prevent future similar attacks?

Group – B

2. Explain why (*any three*) : 3 x 3
a) In angina pectoris Isosorbide dinitrate is administered sublingually.
b) Folic acid alone should not be used in megaloblastic anaemia.
c) Adrenaline injection is given in anaphylactic shock.
d) Low dose aspirin is advised as prophylaxis after myocardial infarction.

Group – C

3. Discuss the mechanism of action of (*any three*) : 3 x 3
a) Vitamine K as procoagulant
b) ACE inhibitors as antihypertensive.
c) Tamsulosin in benign hypertrophy of prostate.
d) Low molecular heparin in deep vein thrombosis.

Group -D

4. Write short notes on (*any four*) : 4 x 3
a) Azithromycin
b) Furosemide.
c) Sodium chromoglycate
d) Drug treatment of glaucoma
e) Essential Drug