

**PHARMACOLOGY****Paper – I****Time allowed : 2 Hours****Full Marks : 40****Use Seperate answer script for each group***Attempt all questions.**The figures in the margine 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