

(3 Hours)

(Total marks: 70)

- N.B.: (1) **All** questions are **compulsory**.
 (2) **Figures** to the **right** indicate **full marks**

Q.1 (a) Answer the following:

12

- (i) What are the disadvantages of using systemic antacids?
- (ii) Describe the triple response of histamine.
- (iii) Explain the mechanism of action (MOA) of morphine.
- (iv) How is racecadotril beneficial in diarrhea?
- (v) Discuss the mechanism of action of sumatriptan.
- (vi) Explain the 'on and off' effect of levodopa.

Q.1 (b) Answer the following:

3

- (i) Name an ulcer protectant agent.
- (ii) Why is nimesulide contraindicated in children?
- (iii) Name a cholinergic activator drug for treating Alzheimer's disease.

Q.2 (a) Answer **any two** of the following:

8

- (i) Classify antidepressant drugs. Discuss the 'serotonin syndrome' and mention the drugs causing the same.
- (ii) Discuss the treatment of status epilepticus and state the adverse effects of Phenytoin.
- (iii) Comment on the preference of benzodiazepines over barbiturates.

Q.2 (b) Answer **any one** of the following:

3

- (i) Explain the mechanism of action of amphetamine and state its clinical uses.
- (ii) Discuss the conditions in which morphine use is contraindicated.

Q.3 (a) Answer **any two** of the following:

8

- (i) Classify NSAIDs. Explain MOA and clinical uses of Aspirin.
- (ii) Classify the drugs used for the treatment of asthma. Add a note on pharmacology of montelukast.
- (iii) Discuss the role of xanthine oxidase inhibitors in gout.

Q.3 (b) Write a short note on **any one** of the following:

3

- (i) Differences between first and second generation anti-histaminic and side effects of cetirizine.
- (ii) Platelet activating factor

Q.4 (a) Answer **any two** of the following:

8

- (i) Discuss the pharmacotherapy of *H. pylori* induced ulcers.
- (ii) Define the term purgative. Add a note on bulk purgatives.
- (iii) Discuss the pharmacotherapy of inflammatory bowel disease.

Q.4 (b) Write a short note on **any one** of the following: 3
(i) Antimicrobials in the treatment of diarrhea
(ii) Ondansetron

Q.5 (a) Answer **any two** of the following: 8
(i) Classify antiparkinsonian drugs. Explain the use of Carbidopa and COMT inhibitors in Parkinson's disease.
(ii) Discuss the pharmacology of chlorpromazine.
(iii) Classify general anesthetic drugs. Comment on the combination of nitrous oxide and halothane in an anesthetic mixture.

Q.5 (b) Write a short note on **any one** of the following: 3
(i) Effect of inflammation on activity of local anesthetics
(ii) Sodium valproate

Q.6 (a) Discuss the symptoms and management of **any two** of the following: 8
(i) Lead poisoning
(ii) Opioid poisoning
(iii) Mercury poisoning

Q.6 (b) Write a short note on **any one** of the following: 3
(i) Role of β 2-agonists as bronchodilators
(ii) Leukotrienes
