

N.B.: (1) All questions are **compulsory**.

(2) **Figures** to the **right** indicate **full marks**

Q.1 (a) Answer the following:

12

- (i) Explain the mechanism of action of sucralfate.
- (ii) State the contraindications for use of aspirin.
- (iii) Enlist the adverse effects of chlorpromazine.
- (iv) Classify general anesthetics.
- (v) Give the indications and disadvantages of laxative use.
- (vi) How is status asthmaticus treated?

Q.1 (b) Answer the following:

3

- (i) _____ is an inhibitor of the enzyme aldehyde dehydrogenase that is used to treat alcohol abuse.
- (ii) When are emetics used? Name an emetic drug.
- (iii) In which patients should selective COX 2 inhibitors be avoided?

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

8

- (i) Explain the merits and demerits of phenytoin as an antiepileptic drug.
- (ii) Discuss the mechanism of action of action of local anesthetic drugs (LAs). What makes amides LAs superior to ester LAs?
- (iii) What are the treatment options for Alzheimer's disease?

Q.2 (b) Write a short note on **any one** of the following:

3

- (i) CNS stimulant drugs
- (ii) Pharmacology of lithium carbonate

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

8

- (i) Classify non-steroidal anti-inflammatory agents (NSAIDs). Give the general mechanism of action, adverse effects and uses of NSAIDs.
- (ii) Describe the actions of serotonin on platelets and GI tract. Enlist 3 drugs and their uses that act through the serotonergic system.
- (iii) Write a note on bronchodilators.

- Q.3 (b) Write a short note on **any one** of the following: 3
- (i) Biosynthesis of histamine and uses of H₁ anti-histaminic drugs.
 - (ii) Prostaglandins
- Q.4 (a) Answer **any two** of the following: 8
- (i) Classify drugs used for treatment of peptic ulcer. Add a note on H₂ blockers.
 - (ii) Elaborate on prokinetic agents.
 - (iii) Write a note on stimulant purgatives.
- Q.4 (b) Write a short note on **any one** of the following: 3
- (i) Oral rehydration therapy
 - (ii) Role of corticosteroids in treatment of inflammatory bowel disease.
- Q.5 (a) Answer **any two** of the following: 8
- (i) Define sedative and hypnotics. Add a note on pre-anesthetic agents.
 - (ii) Justify L-dopa and carbidopa combination in therapy of Parkinsonism. Add a note on adverse effects of L-dopa.
 - (iii) Explain how following factors affect induction and recovery of anesthetic agents.
 - a) Blood solubility of anesthetic agents
 - b) Pulmonary ventilation
 - c) Cerebral blood flow
 - d) Partial pressure of anesthetic agents in the inspired gas
- Q.5 (b) Write a short note on **any one** of the following: 3
- (i) Atypical anti-psychotic drugs
 - (ii) Selective serotonin re-uptake inhibitors
- Q.6 (a) Discuss the symptoms and management of **any two** of the following: 8
- (i) Morphine toxicity
 - (ii) Arsenic toxicity
 - (iii) Methanol toxicity
- Q.6 (b) Write a short note on **any one** of the following: 3
- (i) Platelet activating factor
 - (ii) Uricosuric drugs
