

N.B:

- 1) All questions are **COMPULSORY**.
- 2) Figures to the right indicate **FULL** marks.
- 3) Both the sections should be written in **SEPARATE** answer book.
- 4) Draw neat labeled diagram **WHEREVER** necessary.

**SECTION-I**

Q.1 Long Essay Questions (ANY ONE): (10)

- a) Classify drugs used in peptic ulcer. Write mechanism of action, uses and adverse effects of proton pump inhibitors.
- b) Classify antihypertensive agents. Write mechanism of action, uses and adverse effects of Angiotensin converting enzyme inhibitors.

Q.2 Short Essay Questions (ANY THREE): (15)

- a) Define dental caries. Describe measures to prevent and treat dental caries.
- b) Define the term demulcent. Write in detail about Glycerine
- c) Define obundents. Classify obundents according to their mechanism of action giving examples.
- d) Define bleaching agents. Enlist some bleaching agents with their uses.

Q.3 Write short answer (ANY FIVE): (10)

- a) Mention advantages and disadvantages of oral route of administration.
- b) Enumerate 2 uses of adrenaline giving rationale.
- c) Classify bronchodilators giving one example of each class.
- d) Write a note on treatment of motion sickness.
- e) Explain why furosemide is used in the treatment of acute pulmonary edema.
- f) What is teratogenicity? Give two examples of teratogenic drugs.

**SECTION-II**

Q.4 Long Essay Questions (ANY ONE): (10)

- a) Classify Penicillins. Mention the mechanism of action and limitations of Penicillin G. Add a note on Amoxycillin.
- b) Enumerate 5 glucocorticoids. Discuss their mechanism of action, uses and adverse effects in detail.

Q.5 Short Essay Questions (ANY THREE): (15)

- a) Describe types of local anaesthesia along with their uses.
- b) Discuss uses of H<sub>1</sub> antihistaminics.
- c) Name 2 anticoagulants and discuss mechanism of action, uses and adverse effects of any one of them.
- d) Enumerate 4 Non-steroidal anti-inflammatory drugs and list their uses and adverse effects.

Q.6 Write short answer (ANY FIVE): (10)

- a) Define superinfection giving one example.
- b) Enumerate 2 uses and 2 adverse effects of Metronidazole.
- c) Mention 4 uses of Diazepam along with its route of administration for that use.
- d) Metformin- Identify the class of this drug and write its mechanism of action.
- e) Name 2 parenteral iron preparations along with their adverse effects.
- f) Discuss uses of calcium.

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SECTION-I

- Q.1 Long Essay Questions: (Any ONE) (10)
- a) Classify impression materials. Discuss Irreversible Hydrocolloids in detail.
  - b) Write classification of Dental Casting Alloy. Classify and discuss casting defects.

- Q.2 Short Essay Questions: (Any THREE) (15)
- a) Write composition and manipulation of inlay casting wax.
  - b) Gypsum bonded investment material.
  - c) Finishing and polishing agents in short.
  - d) Addition silicone impression material.

- Q.3 Short answer Questions: (Any FIVE) (10)
- a) Ductility and Malleability.
  - b) What is metamerism? State its significance.
  - c) Define tarnish and corrosion.
  - d) Composition and uses of impression compound.
  - e) Composition of heat cure denture base resins.
  - f) Dimensions of color.

SECTION-II

- Q.4 Long Essay Questions: (Any ONE) (10)
- a) What is amalgam? Describe the composition and amalgamation reaction of silver amalgam. Write a note on high copper silver amalgam alloy.
  - b) Classify luting cements and describe zinc phosphate cement in detail.

- Q.5 Short Essay Questions: (Any THREE) (15)
- a) Write a note on pit and fissure sealants.
  - b) What is soldering and welding? Write about the procedure of soldering.
  - c) Composition and types of GIC.
  - d) Classify composites and write a note on steps in composite filling.

- Q.6 Short answer Questions: (Any FIVE) (10)
- a) Define Adhesion and cohesion. State its importance in dentistry.
  - b) Define Karat and Fineness.
  - c) Enumerate various dental implant materials.
  - d) Enumerate accelerators and retarders used in dentistry.
  - e) Define stress and strain.
  - f) Define thixotropy and give its significance.