

0806

21819

3 Hours / 80 Marks

Seat No.

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- Instructions* – (1) All Questions are *Compulsory*.
(2) Answer each next main Question on a new page.
(3) Figures to the right indicate full marks.
(4) Mobile Phone, Pager and any other Electronic Communication devices are not permissible in Examination Hall.

Marks

1. **Attempt any FIVE of the following:** **20**
- Explain Arrhenius theory of acids and bases with example. Give its limitations.
 - Define antimicrobial agents. Explain mechanism of action of topical antimicrobials.
 - Draw a well labeled diagram of apparatus used for limit test for Arsenic. Name it.
 - Define antioxidants. Enlist the criteria for selection of antioxidant.
 - Define “Achlorhydria”. Write a short mono-graph of drug used for it.
 - Enlist properties for an ideal antacids. Why antacids are preferred in combination?
 - Elaborate the role of iron and calcium in human physiology.
 - Explain physiological acid-base balance.

P.T.O.

- 2. Attempt any THREE of the following:** **12**
- a) Discuss mechanism of action of antioxidants. Give properties and uses of hydrogen peroxide.
 - b) Write molecular formula and uses of ammonium chloride and sodium bicarbonate.
 - c) Define quality control and give its importance in pharmacy.
 - d) Write properties and uses of sodium thiosulphate and sodium nitrite.
 - e) Give uses, storage condition and labeling of carbon dioxide gas.
- 3. Attempt any THREE of the following:** **12**
- a) Enlist different “sources of impurities”.
 - b) Elaborate ORS mixture. Give its composition according to WHO.
 - c) Write a note on cyanide poisoning.
 - d) Explain metabolic acidosis and alkalosis. Name one compound used in metabolic acidosis and metabolic alkalosis
 - e) Give medicinal uses of:
 - (i) Zinc oxide
 - (ii) Titanium dioxide
 - (iii) Talc
 - (iv) Kaoline

4. Attempt any THREE of the following: 12

- a) Write formula and uses of ferrous sulphate and calcium gluconate.
- b) Explain radio-opaque contrast media. Give properties and uses of any one compound used for it.
- c) Define the terms:
 - (i) Desensitizers
 - (ii) Emetics
 - (iii) Expectorant
 - (iv) Laxatives
- d) Explain the principle involved in limit test for iron with reactions.
- e) Define respiratory stimulants. Give properties and uses of ammonium carbonate.

5. Attempt any THREE of the following: 12

- a) What are inhalants? Give properties and uses of nitrous oxide.
- b) Define antidote and classify it.
- c) Enlist various intra and extra cellular electrolytes. Give properties and uses of sodium chloride.
- d) Explain anti carries agent giving example
- e) Define and classify gastro intestinal agents with example.

- 6. Attempt any THREE of the following:** **12**
- a) Give biological role of oxygen. Give properties and uses of oxygen.
 - b) Define Radiopharmaceuticals. Enlist its various applications.
 - c) Write two identification tests for:
 - (i) Calcium
 - (ii) Chlorides
 - d) Explain with examples:
 - (i) Heamatinic
 - (ii) Systemic alkaliser
 - e) Define topical agents. Discuss the uses of astringents with examples.
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