



Time : Three Hours]

[Maximum Marks : 80

N.B. :— (1) Question No. 1 is compulsory.

(2) Attempt any **four** questions from remaining.

(3) Draw neat labelled diagram wherever necessary.

(4) Discuss the reaction, mechanism wherever necessary.

1. Solve any five of the following :

(a) What is the Lewis concept of acids and base ?

(b) Explain, the role of stannated hydrochloric acid and lead acetate in arsenic limit test.

(c) Give the method of preparation and uses of Boric acid.

(d) Write in brief about saline cathartics.

(e) Write a note on Antioxidant.

(f) Write the various WHO formulae of oral rehydration solution.

(g) Derived eqⁿ $P^H + POH = 14$.

4×5=20

2. Define Antacid and classify it. Give the ideal characteristic, physical, chemical properties, preparation, uses and storage condition of aluminium hydroxide gel. 15

3. (a) Write in detail about the pharmaceutical water with special emphasis on sterile water for injection. 8

(b) Describe the electrolyte used in sodium and potassium replacement therapy. 7

4. (a) Write in detail about Radio Opaque contrast media. Give its application. 8

(b) Give the therapeutics and diagnostic uses of Iodine Isotopes. 7

5. What do you mean by dental caries ? Explain the role of fluoride in dental caries and enlist the various dentifrices. 15

6. Classify topical agents and give their properties and uses. 15

7. Write notes on any **three** of the following :

(a) Combination electrolyte therapy

(b) Poison and Antidotes

(c) Expectorant and emetics

(d) Tableting Aids.

3×5=15