Sl.No. M21239 Course Code: 2710102

VINAYAKA MISSION'S RESEARCH FOUNDATION (Deemed to be University), SALEM

DIPLOMA IN PHARMACY EXAMINATION –October 2021 First Year

PHARMACEUTICAL CHEMISTRY - I

Time: Three hours Maximum: 80 marks

Answer **Any EIGHT** questions only
All questions carry equal marks
Draw Neat, Labelled Diagram wherever necessary.

- 1. What are electrolytes? Describe the preparation, properties, assay and storage conditions of sodium acetate and potassium cirate.
- 2. List the official compounds of Calcium and mention their uses. Give the preparation, properties, assay and use of Iodine.
- 3. Give the reason for use of the following chemicals
 - a) Ammonia in the limit test for iron.
 - b) Polyhydric alcohol in the assay of Boric acid.
 - c) Lead acetate cotton wool in the limit test for arsenic.
 - d) Nitric acid in the limit test for Chloride.
 - e) Potassium sulphate in the limit test for sulphate.
- 4. Describe various radiopharmaceutical compounds used in diagnosis and treatment.
- 5. Outline the preparation of the following compounds
 - a) Chlorinated Lime
 - b) Ammonium chloride
 - c) Ferrous sulphate
 - d) Antimony potassium tartrate.
- 6. Give the identification tests for following radicals
 - a) Nitrate
 - b) Copper
 - c) Sulphate
 - d) Bicarbonate
 - e) Aluminium

- 7. Write notes on
 - a) Astringent
 - b) Antacid
- 8. Write the preparation, properties, storage, assay and uses of Oxygen and Carbon dioxide.
- 9. a)Describe the principle, reaction and procedure involved in the limit test for Heavy metals.
 - b) Give the preparation, properties, Assay, storage and Uses of Hydrogen peroxide.
- 10. Write a note on
 - a) Antioxidants.
 - b) Respiratory Stimulants.

(Sl.No. M21239)