Sl.No. M21851 Course Code: 2710102

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

DIPLOMA IN PHARMACY EXAMINATION – October 2019 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. Explain various sources of impurities in Pharmaceuticals with suitable examples.
- 2. Describe the measurement of Radioactivity and add a note on Biological effects of radiations.
- 3. What are dental products? Write the methods of preparation and properties of
 - a) Sodium fluoride
- b) Dicalcium phosphate.
- 4. Write short notes on:
 - a) Sulphur and its compounds b) Protectives and adsorbents.
- 5. a) Write the principle and reactions involved in the limit test for iron.
 - b) Write a note on official buffers.
- 6. Complete the following reactions

b)
$$Na_2CO_3+Ca(OH)_2 \longrightarrow$$

c)
$$2Na_2S_2O_3 + I_2$$

d)
$$ZnO + H_2SO_4 \longrightarrow$$

e)
$$CaCO_3 + 2HCl \longrightarrow$$

- 7. What are Antacids? Describe the preparation, properties, assay and storage conditions of any TWO magnesium compounds used as an antacid.
- 8. Write identification test for carbonates, iodide, ferrous salts, magnesium and potassium.
- 9. Write a note on: a) Inhalants b) Expectorants
- 10. Write briefly on : a) Oral electrolyte powder b) Official Mercury Compounds.