

**VINAYAKA MISSION'S RESEARCH FOUNDATION  
(DEEMED TO BE UNIVERSITY), SALEM**

**DIPLOMA IN PHARMACY EXAMINATION – July 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. Write the principle, reaction and procedure involved in the limit test for Iron.
2. i) Write about physiological acid base and its importance.  
ii) Respiratory stimulants.
3. Write the preparation, uses and storage condition of the following  
a) Oxygen    b) Alum    c) Nitrous oxide
4. What are electrolytes? Name the major intra and extra cellular electrolytes. What do you mean by electrolyte replenisher?
5. Write short notes on  
i) Topical agents  
ii) Write the preparation and assay of Ammonium chloride
6. Define the following and give examples  
i) Antidote    ii) Antioxidant    iii) Astringent and expectorant
7. Write the preparation and assay of the following  
i) Chlorinated lime    ii) hydrogen peroxide
8. Write the identification test for the following  
i) Aluminium    ii) Ammonium    iii) Calcium    iv) Barium    v) Nitrate
9. What are radiopharmaceuticals and write their medicinal uses and applications?
10. i) How will you prepare Iodonic from seaweeds?  
ii) Write the storage conditions and uses of Iodine.

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