(LM 4251) **FEBRUARY 2018** Sub Code: 4251

B.PHARM. DEGREE EXAMINATION
FIRST YEAR
PAPER I – PHARMACEUTICAL INORGANIC CHEMISTRY

Q.P. Code: 564251

Time: Three hours **Maximum: 100 Marks**

I. Elaborate on: **(2 x 20 = 40)**

1. a) Explain the methods for measurement of radioactivity.
   b) Discuss the diagnostic and therapeutic applications of radio isotopes.
   c) Detail about artificial radio activity.

2. a) Define and classify antacids. Write about the combination therapy of antacid.
   b) Write the method of preparation and assay involved in Aluminium hydroxide gel.
   c) Acid neutralizing capacity.

II. Write notes on: **(8 x 5 = 40)**

1. Explain the principle and procedure involved in the limit test for lead.
2. Define saline cathartic? Write the method of preparation and assay for any two drugs.
3. Give in detail about ORS.
4. Write note on acid base balance.
5. Write the physiological role of Iron and Selenium.
6. Write about Iron Dextran injection.
7. Write the structural formula and uses for the followings:
   a) Chlorinated lime b) Green vitriol c) Alum
   d) Milk of magnesia e) Precipitated chalk
8. What are the official preparations of Calcium? Give the preparation, assay and uses of any one compoun

III. Short answers on: **(10 x 2 = 20)**

1. Write the assay and storage condition of oxygen.
2. Give one example and structure of the compound from the following category:
   a) Sclerosing agents b) Expectorants c) Respiratory stimulant d) Antidotes
3. Give some official compounds of Iron.
4. Define dentifrices with examples.
5. Brief about Dimethicone.
6. What are the compositions present in Ringer's solution?
7. Write about Indian Pharmacopoeia.
8. Classify topical agent with examples.
9. Define the terms: Molarity and Normality.
10. What is sterile water for injection?

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