

Paper Id: 

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**B. PHARM**  
**(SEM-I) THEORY EXAMINATION 2019-20**  
**PHARMACEUTICAL CHEMISTRY-I (INORGANIC CHEMISTRY)**

**Time: 3 Hours****Total Marks: 100****Note:** Attempt all Sections.**SECTION A**

- 1. Attempt all questions in brief. 2 x 10 = 20**
- What do you mean by the term limit test?
  - Write the name of different types of glass used in handling of pharmaceuticals.
  - Define dentifrices with suitable examples.
  - Write the composition of ORS.
  - Define antioxidants with examples.
  - Write the precautions that should be taken in handling of radiopharmaceuticals?
  - Define acidifying agents and write any two uses.
  - Define cathartics and laxative.
  - What are the advantages of combination antacids therapy?
  - What is radio activity and define isotopes?

**SECTION B**

- 2. Attempt any three of the following: 10x3=30**
- What are the different sources of impurities that can arise in pharmaceutical formulations?
  - What are anti-infective agents? Discuss their mechanism of action and give a detailed account on Boric acid?
  - Define antidotes. Write about the types of antidotes and discuss in brief about sodium thiosulphate.
  - What are Haematinics? Write preparation method, identification test and uses of ferrous sulphate and ferric ammonium citrate.
  - Discuss in brief about calamine and titanium dioxide.

**SECTION C**

- 3. Attempt any one part of the following: 10x1=10**
- What are anti-caries agents? Discuss in brief about sodium fluoride.
  - What is electrolyte replacement therapy? Write short notes on any two electrolytes.
- 4. Attempt any one part of the following: 10x1=10**
- Write a short note on protectives and adsorbents. Give the method of preparation and uses of activated charcoal and aluminum sulphate.
  - Write in details about limit test of iron.
- 5. Attempt any one part of the following: 10x1=10**
- What are expectorants? Write the method of preparation, identification test and uses of ammonium chloride and potassium iodide.
  - Discuss in brief about clinical applications of radiopharmaceuticals.
- 6. Attempt any one part of the following: 10x1=10**
- Discuss in detail about types of water used in pharmaceutical preparations.
  - Define antacid. What should be their ideal properties? Discuss in brief about aluminium hydroxide.
- 7. Attempt any one part of the following: 10x1=10**
- Write a short note on physiological acid-base balance.
  - Discuss in brief about methods of measurement of radioactivity.