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Sub Code: RPH101

Paper Id: 5005

B. PHARM
(SEM I) THEORY EXAMINATION 2017-18
PHARMACEUTICAL CHEMISTRY-I
(PHARMACEUTICAL INORGANIC CHEMISTRY)

Time: 3 Hours**Total Marks: 70****Note:** Attempt all Sections.**SECTION A**

- 1. Attempt all questions in brief. 2 x 7 = 14**
- Draw the structure of lead-dithizone complex.
 - Give the reasons why povidone iodine is superior to other iodine preparations?
 - What are respiratory stimulants? Give examples.
 - Write down the composition of ORS.
 - What are combination antacids?
 - What are the uses of protective and adsorbent?
 - What are poison antidotes?

SECTION B

- 2. Attempt any three of the following: 7 x 3 = 21**
- Write principle, apparatus and procedure for limit test of Arsenic
 - Write down the properties of an ideal antacid. Give the method of preparation, identification test and uses of Bismuth-subcarbonate.
 - What do you mean by Werner theory of co-ordination? Explain in detail.
 - What are anti-oxidants? How do they act? Give the method of preparation, identification test and uses of sodium metabisulphite.
 - Write notes on
 - Electrolyte Replacement Therapy
 - Role of copper and iodine in human body

SECTION C

- 3. Attempt any one part of the following: 7 x 1 = 7**
- Write in detail about the limit test of iron.
 - What are the different sources of impurities? How are they controlled?
- 4. Attempt any one part of the following: 7 x 1 = 7**
- What do you understand from anti-infective? Explain various mechanism of action of inorganic anti-infective. Give method of preparation and identification test of hydrogen peroxide.
 - Write down methods of preparation, identification test and uses of
 - Calamine
 - Alum

5. Attempt any one part of the following: 7 x 1 = 7

- (a) Write down the methods of preparation, identification test and uses of
 - I. Magnesium carbonate
 - II. Aluminium sulphate
- (b) Write down the methods of preparation, identification test and uses of
 - I. Ammonium chloride
 - II. Aluminium hydroxide

6. Attempt any one part of the following: 7 x 1 = 7

- (a) Write down the methods of preparation, identification test and uses of
 - I. Sodium chloride
 - II. Ferrous sulphate
- (b) Write down the methods of preparation, identification test and uses of
 - I. Calcium gluconate
 - II. Ferric ammonium citrate

7. Attempt any one part of the following: 7 x 1 = 7

- (a) Write notes on
 - I. Units of radioactivity
 - II. Biological hazards and precautions in handling radiopharmaceuticals
- (b) Write notes on
 - I. Clinical applications of radiopharmaceuticals
 - II. Pharmaceutical importance of chelates