

16/2/2023

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2023

B.Pharm. 1st Semester End-Term Examination

PHARMACEUTICAL INORGANIC CHEMISTRY (THEORY)

Full Marks – 75

Time – Three hours

The figures in the margin indicate full marks for the questions.

1. Multiple choice questions (MCQ) (Answer ALL questions): (20 × 1 = 20)
- (i) The first edition of Indian Pharmacopoeia was published in
(a) 1985 (b) 2014
(c) 1955 (d) 2018
- (ii) The synonym for sodium hydroxide is
(a) Sodium potassium tartrate (b) Baking soda
(c) Caustic soda (d) None of these
- (iii) Example of desensitizing agent is
(a) Sodium bicarbonate (b) Strontium Chloride
(c) Magaldrate (d) None of these
- (iv) In limit test for iron which of the following is used to prevent the precipitation of iron by ammonia?
(a) Barium sulphate (b) Dil. HCl
(c) Citric acid (d) None of these
- (v) The meaning of hyperchlorhydria is
(a) Inadequate secretion of acids in stomach
(b) Excess secretion of acids in stomach
(c) Excess secretion of acids in systemic circulation
(d) None of these

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- (vi) Which compound is used as protective in GIT
- (a) Bismuth subcarbonate (b) Bentonite
(c) Kaolin (d) All
- (vii) Which one of the following is an example of non systemic antacid?
- (a) Aluminium carbonate (b) Aluminium phosphate
(c) Sodium bicarbonate (d) Both (a) and (b)
- (viii) Name the gas which is evolved in arsenic limit test
- (a) Mercury chloride (b) Arsine
(c) Lead acetate (d) None of these
- (ix) Which one of the following is a major extracellular cation?
- (a) Cl^- (b) Mg^{2+}
(c) Na^+ (d) None of these
- (x) What is the concentration of hydrogen peroxide in mouth wash?
- (a) 3% w/v (b) 2% w/v
(c) 4% w/v (d) None of these
- (xi) Antidote used in the treatment of lead poisoning is
- (a) Desferrioxamine (b) Dimercaprol
(c) Both (a) and (b) (d) None of these
- (xii) Examine of radioopaque contrast media is
- (a) Barium sulphate (b) Magnesium sulphate
(c) Copper sulphate (d) All
- (xiii) Rochelle salt is
- (a) Magnesium carbonate (b) Sodium potassium tartarate
(c) Magnesium hydroxide (d) None of these
- (xiv) Example of haematinic
- (a) Zinc chloride (b) Strontium chloride
(c) Ferrous sulphate (d) None of these
- (xv) The pH range of stomach is _____.
- (a) 10 – 12 (b) 4 – 6
(c) 1 – 3 (d) None of these

(xvi) Formula for bleaching powder is

- (a) $\text{Na}_2\text{B}_4\text{O}_7 \cdot 10 \text{H}_2\text{O}$ (b) $\text{CaOCl}(\text{Cl}) \cdot \text{H}_2\text{O}$
(c) Na_2SO_4 (d) Ammonia solution

(xvii) 5% iodine and 10% potassium iodide solution is

- (a) Strong iodine solution (b) Povidone iodine
(c) Aqueous iodine solution (d) None of these

(xviii) What are the components of universal antidote?

- (a) Magnesium oxide, tannic acid, activated charcoal
(b) Magnesium oxide, sodium thiosulphate, activated charcoal
(c) Magnesium oxide, sodium nitrite, activated charcoal
(d) None of these

(xix) $t_{1/2}$ of Radiopharmaceutical is

- (a) $0.246/k$ (b) $0.693/k$
(c) $0.432/k$ (d) None of these

(xx) The amount of lactic acid present in Ringer lactate solution is

- (a) 0.27 g (b) 6 g
(c) 2.4 ml (d) 1 ml

2. Long answers (Answer *two* out of *three*): (2 × 10 = 20)

- (a) What is the role of fluoride in the treatment of dental caries? Write a note on dental products. (3 + 7)
(b) Write a note on following topics. (5 + 5)
(i) Limit test for sulphate.
(ii) Limit test for arsenic.
(c) Discuss the process for measurement of radioactivity.

3. Short answers : (Answer *seven* out of *nine*): (7 × 5 = 35)

- (a) Define antacid. Discuss about any one systemic antacid. (1 + 4)
(b) How can you find out the pH and pOH for any buffer solution?
(c) Discuss the mechanism of antimicrobial agents.
(d) Discuss the properties of α , β and γ rays.

- (e) Discuss the assay procedure for copper sulphate.
 - (f) Write a note on sources of impurities.
 - (g) Discuss the Lewis and Bronsted Lowry concept of acid and base.
 - (h) Define cathartics. Write down a note on any one cathartic. (1 + 4)
 - (i) Write down the formula, synonym, preparation, identification test and use of hydrogen peroxide.
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