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CS/B.Pharm/SEM-1/PT-103/2009-10 2009

PHARMACEUTICAL CHEMISTRY (INORGANIC CHEMISTRY)

Time Allotted: 3 Hours Full Marks: 70

The figures in the margin indicate full marks.

Candidates are required to give their answers in their own words as far as practicable.

GROUP - A

(Multiple Choice Type Questions)

1. Choose the correct alternatives for any ten of the following:

 $10 \times 1 = 10$

- i) Hydrogen peroxide is generally not used as anti-infective for
 - a) Dermatological infection
 - b) Ear infection
 - c) Opthalmic infections
 - d) Systemic infection.
- ii) Which one of the following combinations of antacid are more common?
 - a) Aluminium and magnesium compounds
 - b) Sodium and magnesium componds
 - c) Potassium and magnesium compounds
 - d) none of these.

11703 [Turn over

CS/B.Pharm/SEM-1/PT-103/2009-10 iii) Calamine contains 98% ZnO 99% ZnO b) 95% ZnO 2% ZnO. c) d) Strong iodine contains of iodine. iv) a) 10% w/v b) 11% w/v 15% w/v c) d) 5% w/v. v) Strontuim chloride acts as a a) Polishing agent b) Desensitising agent c) Antiseptics d) Cementing agent. Which of the following electrolytes can be used in metabolic alkalosis? Na acetate b) K aetate a) Na bicarbonate d) Ammonium chloride. c) vii) Which of the following physiological fluids has pH 1.5 - 3.5? a) Saliva b) Blood c) Gastric juice d) Urine. viii) Which of the following is isotonic with blood? 0.09% w/v NaCl solution 0.9% w/v NaCl solution b) 0.09% v/w NaCl solution c) 0.9% w/w NaCl solution. ix) The turbidity produced in the limit test of chloride is due to

b)

d)

b)

d)

Barium chloride

Thioglycollate.

Stalagmometer

Friabilator.

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Silver chloride

Silver nitrate

Radioactivity is measured by Ostwald detector

Scintillation counter

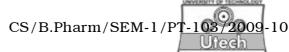
a)

c)

a)

c)

X)



- xi) Which of the following inorganic compound can be used as sedative?
 - a) Potassium chloride
- b) Potassium bromide
- c) Calcium chloride
- d) None of these.
- xii) According to I.P. Sterile water for injection should comply
 - a) sterility test
- b) test for pyrogen
- c) both of these
- d) none of these.

GROUP - B

(Short Answer Type Questions)

Answer any three of the following.

 $3 \times 5 = 15$

2. What is conjugate acid-base pair?

"The proton is a Lewis acid as well as Bronsted acid". Explain. $2\,\frac{1}{2}\,+2\,\frac{1}{2}$

- 3. What do you mean by cathartics? How can you classify cathartics depending upon the mechanism of action? Discuss with examples. 1+4
- 4. Differentiate between the following:
 - a) Light magnesium carbonate and heavy magensium carbonate
 - b) Antiseptic and disinfectant.

 $2\frac{1}{2} + 2\frac{1}{2}$

5

- 5. What do you mean by the term 'IMPURITY'? Describe the principle of limit test for arsenic.
- 6. Wrie a short note on 'ASTRINGENT' as topical agent.

GROUP - C

(Long Answer Type Questions)

Answer any *three* of the following. $3 \times 15 = 45$

- 7. a) Describe the Biological importance of 'IRON'.
 - b) Give the properties and uses of the following compounds:
 - i) Ferrous sulphate
 - ii) Zine sulphate
 - iii) Sodium iodide.

 $3 + (4 \times 3)$

11703

3

[Turn over

CS/B.Pharm/SEM-1/PT-103/2009-10



- 8. a) What are antidotes? Discuss the role of sodium nitrite as an antidote for cyanide poisoning.
 - b) Give a general account of antioxidants. Discuss the antioxidant mechanism of hypophosphorous acid.

$$(2+5)+(3+5)$$

- 9. a) What do you mean by achlorhydria, hypochlorhydria & hyperchlorhydria?
 - b) How can you treat the condition of achlorhydria and hypochlorhydria?
 - c) What are antacids? What are the ideal requirements of an antacid?
 - d) What is the rational behind using combined antacid preparations?
 - e) Write shrot note on the following:
 - i) Aluminium hydroxide gel, IP

OR

- ii) Magnesium trisilicate. $1\frac{1}{2} + 1 + (1 + 3) + 2\frac{1}{2} + 6$
- 10. Write short notes on the following:

5 + 3 + 3 + 4

- a) Dentifrice
- b) Expectorant
- c) Emetics
- d) Sterile water for injection.
- 11. a) What are the major extra and Indra-Cellular Electrolytes?
 - b) Discuss the important function of sodium in body.
 - c) What is replacement therapy?
 - d) Write about the different official preparation of sodium chloride.
 - e) What is meant by oral rehydration therapy?

$$2 + 3 + 3 + 5 + 2$$

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