

Roll No.-----

Enrolment No. _____

PARUL UNIVERSITY
PARUL INSTITUTE OF PHARMACY

B.PHARM FIRST SEMESTER

SECOND INTERNAL THEORY EXAMINATION: 2019-20

Subject Name: PHARMACEUTICAL INORGANIC CHEMISTRY

Subject Code: BP104T

Date: 16/02/21

Time: 2.00 p.m. to 3.15 p.m.

Total Marks: 30

Instructions:

1. Figures to the right indicate full marks.
2. Make suitable assumptions wherever necessary.

- Q.1 Multiple Choice Questions: [10]**
- (1) 0.9% sodium chloride is ----- **01**
(a) Hypertonic (b) Hypotonic (c) Isotonic (d) None of the above
- (2) Which of the following is used as hematinic? **01**
(a) Ammonium chloride (b) Ferrous Gluconate (c) Potassium iodide (d) Boric acid
- (3) Which of the following is weak acid? **01**
(a) Acetic acid (b) Hydrochloric acid (c) Sulphuric acid (d) NaOH
- (4) The equation used for buffer solution is **01**
(a) Nerst Equation (b) Handerson Hasselbalch Equation
(c) Van Slyke Equation (d) None of the above
- (5) Which of the following is used as an antimicrobial agent? **01**
(a) Hydrogen Peroxide (b) Ferrous sulphate
(c) Sodium nitrite (d) Sulphuric acid
- (6) Polyvinyl pyrrolidone is present in ----- **01**
(a) Aqueous iodine solution (b) Weak iodine solution (c) Strong iodine solution (d) Povidone iodine solution
- (7) Hydrogen peroxide is assayed by **01**
(a) Acid base titration (b) Redox titration (c) Precipitation titration
(d) Non aqueous titration

- (8) When RBCs are placed in hypertonic solutions, condition of RBC is 01
(a)Swelling (b)Crenation (c)No change in shape (d)None of the above
- (9) In class I method ----- is added to solution to make the solution isotonic 01
(a)Water (b)Dextrose(c) Sodium chloride (d)Boric acid
- (10) pH of hydrochloric acid buffer is 01
(a) * 1.2-2.2 (b)3-4 (c)4-5 (d) 7-8

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Q.2. Long Answers (Any One)

- (1) Define (with examples) antiseptic, disinfectant, bacteriostatic, hypertonic solution, sanitizer. Write a note on mechanism of action of antimicrobial agents. **10**
- (2) Write a note on acid-base theories. Write mechanism of action of acidic buffers. Give classification of methods of determining isotonic buffered solution. **10**

Q.3. Short Answers (Any two)

- (1) Define expectorants. Give classification of expectorants. Write the mechanism of action of expectorants. **05**
- (2) What is cyanide poisoning? Write a note on inorganic agents used in the treatment of cyanide poisoning. **05**
- (3) Give classification of antidote. Write method of preparation, properties, assay and uses of ferrous sulphate. **05**
