

Roll No.: _____

Enrolment No. _____

PARUL UNIVERSITY

FACULTY OF PHARMACY

B. PHARM FIRST SEMESTER

IMPROVEMENT THEORY EXAMINATION: 2022-23

Subject Name: Pharmaceutical Inorganic Chemistry

Subject Code: BP104T

Time: 1 hr 15 min

Date: 01/03/2023

Total Marks: 30

Instructions:

1. Make suitable assumptions wherever necessary.

2. Figures to the right indicate maximum marks.

Q.1 Multiple Choice Questions. (10 X 1 = 10)

(10)

- 1 In limit test of sulphate, alcohol not allow
 - a) saturation
 - b) super saturation
 - c) less saturation
 - d) precipitation
- 2 Indian Pharmacopoeia is published by
 - a) International Pharmacopoeial committee
 - b) International Pharmacopoeial commission
 - b) Indian Pharmacopoeial committee
 - d) Indian Pharmacopoeial commission
- 3 Impurities in pharmaceutical preparation may be due to following sources:
 - a) Raw material
 - b) Manufacturing process
 - c) Chemical instability
 - d) All of the above
- 4 The overall height of Nessler cylinder is about
 - a) 110 mm
 - b) 150 mm
 - c) 190 mm
 - d) 200 mm
- 5 In Gutzeit apparatus, which paper is used to trap any hydrogen sulphide which may have evolved along with arsine?
 - a) pH paper
 - b) Litmus paper
 - c) Lead acetate paper
 - d) Filter paper
- 6 According to Lewis concept acid is
 - a) electron pair acceptor
 - b) electron pair donor
 - c) proton acceptor
 - d) electron acceptor
- 7 Selection of buffer depends upon
 - a) Chemical factors
 - b) Pharmaceutical factors
 - c) Both a and b
 - d) None of the above
- 8 Which is the properties of buffer
 - a) The pH of buffer solution is constant
 - b) The pH does not changes with dilution
 - c) The pH does not changes with even after addition of small quantities of acid or bases
 - d) All of the above
- 9 Increased level of the sodium in the body is called as
 - a) Hypernatremia
 - b) Hyponatremia
 - c) Hyperkalemia
 - d) Hypokalemia
- 10 Sodium fluoride is an example of
 - a) Anticaries agent
 - b) Polishing agent
 - c) Cleaning agent
 - d) Desensitizing agent

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Q.2 Long Answer: (Answer Any one) (1 X 10 =10) (10)

- 1 Explain various acid-base theories.
- 2 Explain major intra and extra cellular electrolytes. Give a brief account on Oral Rehydration Salt.

Q.3 Short Answer (Answer Any Two) (2 X 5=10) (10)

- 1 Define pharmacopoeia. Give a brief note on Indian Pharmacopoeia.
- 2 Enlist the sources of the impurities in pharmaceuticals and discuss the manufacturing hazards as sources of impurities.
- 3 Define limit test. Write a detailed note on the limit test for Iron.