

DR. BABASAHEB AMBEDKAR TECHNOLOGICAL UNIVERSITY, LONERE

End Semester Examination – Winter 2023

Date: 08-01-2024

Course : I Y. B. Pharmacy
Subject Name : Pharmaceutical Inorganic Chemistry
Max Marks : 75
Sem : I
Subject Code : BP104F
Duration : 3 Hr.

Instructions:

1. All questions are compulsory
2. Draw diagrams / figures wherever necessary
3. Figures to right indicate full marks

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Q. 1. Objective Type Questions (Answer all the questions) (10 x 2) = 20

- i) Write principle involved in limit test for Chloride.
- ii) Define the term a) Hypernatremia, b) Hygroscopic
- iii) Define Pharmacopeia with example.
- iv) Define hematinic with example
- v) Why combination antacids are given?
- vi) Define emetics with example.
- vii) What is half-life of radioisotope
- viii) Enlist two properties of α -ray.
- ix) Classify pharmaceutical buffers.
- x) Write synonyms for ferrous Sulphate & Magnesium Sulphate

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Q. 2. Long Answers (Answer 2 out of 3) (2 x 10) = 20

- i) Define & classify impurities. Discuss various sources of impurities in pharmaceutical substances with suitable examples.
- ii) Define and give classification of gastrointestinal tract agents. What are antacids? Give ideal properties of antacids. Write preparation, properties uses and assay method for Sodium Bicarbonate.
- iii) Define and classify antidote with suitable example. Discuss their mechanism of action. Write preparation, properties, uses, assay method and mechanism of action of chemical antidotes used in cyanide poisoning

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Q. 3. Short Answers (Answer 7 out of 9) (7 x 5) = 35

- i) Write short note on Expectorants.
- ii) Write short note on anti-caries agents.
- iii) Discuss the role of major extra & intra cellular electrolytes

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- v) Write a note on limit test for arsenic.
- vi) What are astringents? Give their mechanism of action. Write properties & uses of potash alum.
- vii) What are buffers? Write various applications of buffers.
- viii) What are Radiopharmaceuticals? Discuss storage conditions, precautions & handling of radioactive substances.
- ix) Write a note on history of Indian Pharmacopoeia

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