DR. BABASAHEB AMBEDKAR TECHNOLOGICAL UNIVERSITY, LONERE

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End Semester Examination – Winter 2023

Date: 11/12/2023

Course	:	B. Pharmacy	Sem :	I
Subject Name	:	Pharmaceutical Analysis I	Subject Code:	BP102T
Max Marks	:	75	Duration :	3 Hr.

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

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

i) Explain principle of Mohr's method.

ii) Explain principle, reaction involved in standardization of sodium hydroxide.

iii) Differentiate between iodometry and iodimetry.

iv) Define co-precipitation and post-precipitation.

v) Explain back titration with an example

vi) Define reference electrode and indicator electrode with example.

vii) Describe principle of polarography.

viii) Define oxidizing and reducing agent with example.

ix) Differentiate between qualitative and quantitative analysis.

x) Differentiate between accuracy and precision.

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

i) Describe in detail conductometric titrations.

ii) Explain principle and different steps involved in Gravimetric analysis?

iii) Write the principle of limit test for arsenic? Explain construction and working of Gutzeit test apparatus.

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

i) Give the principle, reaction for limit test for chloride and sulphate.

ii) Explain in short masking and demasking agents.

iii) Explain the principle, reaction involved in the estimation of Calcium Gluconate.

iv) Describe leveling and differentiating effects in the context of non-aqueous titrations.

v) Discuss construction and working of calomel electrode.

vi) Define and classify errors.

vii) Discuss neutralization curve of strong acid against strong base.

viii) Differentiate between Volhard's and modified Volhard's method.

ix) Explain pM indicators.