Roll No.: _____ Enrollment No._____

PARUL UNIVERSITY

SCHOOL OF PHARMACY

B.PHARM FIRST SEMESTER

SECOND INTERNAL THEORY EXAMINATION: 2021-22

Subject Name: Pharmaceutical Analysis
Subject Code: BP102T Date: 18/01/20222
Time: 10.00 AM Total Marks: 30

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

Q.2 Long Answers: (Any One)

1) Classify acid-base Titration and theory involved in titration of Strong, weak and very weak acids and bases. 10

2) Explain principle, Instrumentation and Applications of conductometry. 10

Q.3 Short Answers: (Any Two)

1) Enlist the different acid –Base Indicator theories and write a note on Ostwald's theory. 05

2) What are the various types of Conductivity cells? Why the polarization of electrode done. 05

3) Enlist the end point detection method in precipitation titration and explain Mohr's method. 05

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Q.1 Multiple Choice Questions:

(1) According to Bronsted theory _____Is substance that can accept the proton. 01
(a) Acid (b) Base (c) Buffer solution (d) Both a) and b)

(2) Conductance is expressed in units of reciprocal_____. 01
(a) mhos (b) volt (c) Siemens (d) None of the these

(3) What is the effect of dilution on conductance_____. 01
(a) Decreases (b) Increases (c)Remain constant (d) None of these

(4) Which standard solution is used for calibration of conductometer? 01
(a) 0.1 N KCl (b) Water (c) PH 4 and 7 (d) None of these

(5) Which electrode used as Reference electrode in Potentiometry. 01
(a) Hydrogen Electrode (b) Standard Hydrogen Electrode
(c) Glass membrane Electrode (d) All

(6) Type of Precipitation Titration_____. 01
(a) Argentometric (b) Mercurometric (c) Both a) and b)
(d) None of these

(7) Which method is based on precipitation of adsorption indicators? 01
(a) Mohr's method (b)Volhard's method (c) Fajan's method
(d) None of these

(8) Ascorbic acid is the example of_____agent. 01
(a) Masking (b) Demasking (c) Both a) and b) (d) None of these

(9) Which one is Polydentate ligand. 01
(a) EDTA (b) NH_3 (c) DMF (d) All

(10) Type of ligand_____. 01
(a) Unidentate (b) Bidentate (c) Ploydentate (d) All