

PARUL UNIVERSITY
FACULTY OF PHARMACY
B.Pharm., Winter 2017-18 Examination

Semester:3**Subject Code: 08101202****Subject Name: Pharmaceutical Analysis-I****Date: 13-12-2017****Time: 02:00PM to 05:00PM****Total Marks: 75****Instructions:**

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

Q.1 Essay type Questions. (Any 2 out of 3) (10 marks each) (20)

1. Define redox titration. Explain principle and procedure of Iodometry.
2. What do you mean by neutralization curve? Explain neutralization curve for the following titrations
:- (a) Strong Acid V/s Strong Base (b) Weak Acid V/s Weak Base
3. What is non aqueous titration? Write differentiating & leveling effects of solvents and discuss merits & demerits of non aqueous titration over aqueous titration.

Q.2 Short Essay type Questions. (Any 7 out of 9) (5 marks each) (35)

1. Define terms :-
(a) Molarity (b) Normality (c) Self indicator (d) Primary standard (e) Back Titration
2. Write a note on common ion effect.
3. What is error? Classify errors & write methods of minimization of error?
4. Write a note on oxygen combustion flask method.
5. Differentiate between iodometric and iodimetric titration.
6. What is argenometric titration? Write a note on Mohr's method.
7. Enumerate types of redox titration. Discuss permanganometry in detail.
8. Write a note on Karl-Fischer's titration.
9. Differentiate between QA and QC.

Q.3 Answer in short. (2 marks each) (20)

1. Define strong acid & weak acid
2. What are mixed-indicator? give example
3. What is equivalent weight? Give formula for calculation of equivalent weight.
4. Define (i) standardization (ii) tolerance limit
5. What are the advantages of Volhard's method over Mohr's method.
6. Define Ligands with example.
7. Define chelates with example.
8. What is Law of Mass Action?
9. Differentiate covalent bond and coordinate bond.
10. Write different steps of kjeldahl's method with reaction.