

Code No.

Symbol Number: _____ Invigilator's Sign: _____ Superintendent's Sign: _____

Symbol No. in Words: _____

Faculty: Medicine and Allied Health Sciences **Level: Bachelor**

Year/Part: II/I

Program: Bachelor of Pharmacy
Subject: BP304 Pharmaceutical Analysis

Level: Bachelor
Time: 3 Hours

F.M.: 50
P.M.: 25

- i* Answers should be given by filling the Objective Answer Sheet.
- ii* Rough can be done in the main answer sheet
- iii* Maximum time of 20 minutes within the total time is given for this group.

Group A (Multiple Choice Questions) [10×1=10]

1. Solvent with low dielectric constant is :
a) Protophilic b) Protogenic c) Aprotic d) Amphiprotic
2. Accidental error is also referred as error:
a) Determinate b) indeterminate c) gross d) systemic
3. A mixture of 3 parts of phenolphthalein and 1 part of naphthol phthalein shows a change in color from pale rose to violet at pH.....
a) 8.3 b) 7.9 c) 8.9 d) 9.8
4. In HNO₃ oxidation number of nitrogen is :
a) +3 b) +5 c) -3 d) +4
5. Color change in endpoint of non-aqueous titration from yellow to red is shown by indicator:
a) Methyl red b) Crystal violet c) Thymol blue d) Quinaldine red
6. A large K_a value indicates:
a) Strong base b) strong acid c) weak acid d) weak base
7. When the experiment is repeated by the same person, using the same equipment and the results are close together, it is called:
a) repeatability b) reproducibility c) accuracy d) error
8. When K_{ip}<K_{sp}, then solution is unsaturated:
a) unsaturated b) saturated c) super saturated d) none
9. This is anything unwanted which precipitates with the analyte during precipitation
a) Postprecipitation b) Coprecipitation c) Preprecipitation d) Occlusion
10. Diphenylamine in conc sulphuric acid is in reduced form
a. Violet b) pale blue c) colorless d) orange

Multiple Choice Questions' Answer Sheet

Code No. _____

Marks Secured: _____

Corrected Fill
 A B C D

Incorrected Fill
 A B C D

In Words: _____

Examiner's Sign: _____ Date: _____

Scrutinizer's Marks: _____

In Words: _____

Scrutinizer's Sign: _____ Date: _____

1. <input type="radio"/> A <input type="radio"/> B <input type="radio"/> C <input type="radio"/> D	6. <input type="radio"/> A <input type="radio"/> B <input type="radio"/> C <input type="radio"/> D
2. <input type="radio"/> A <input type="radio"/> B <input type="radio"/> C <input type="radio"/> D	7. <input type="radio"/> A <input type="radio"/> B <input type="radio"/> C <input type="radio"/> D
3. <input type="radio"/> A <input type="radio"/> B <input type="radio"/> C <input type="radio"/> D	8. <input type="radio"/> A <input type="radio"/> B <input type="radio"/> C <input type="radio"/> D
4. <input type="radio"/> A <input type="radio"/> B <input type="radio"/> C <input type="radio"/> D	9. <input type="radio"/> A <input type="radio"/> B <input type="radio"/> C <input type="radio"/> D
5. <input type="radio"/> A <input type="radio"/> B <input type="radio"/> C <input type="radio"/> D	10. <input type="radio"/> A <input type="radio"/> B <input type="radio"/> C <input type="radio"/> D

MANMOHAN TECHNICAL UNIVERSITY

Office of the Controller of Examinations

Budiganga- 4, Morang, Koshi Province Nepal

Faculty: Medicine and Allied Health Sciences

Year/Part: II/I

Program: Bachelor of Pharmacy

Level: Bachelor

F.M.: 50

Subject: BP304 Pharmaceutical Analysis

Time: 3 Hours

P.M.: 25

- ✓ *Group A contains Multiple Choice Questions of 5 marks.*
- ✓ *Candidates are required to give their answers in their own words as far as practicable.*
- ✓ *The figures in the margin indicate Full Marks.*
- ✓ *Assume suitable data if necessary.*

Group B (Problem-Based Question)

[1×10=10]

1. An analyst while performing wanted to know the concentration of sodium hydroxide solution he had prepared. To find this he used standard 0.1N HCl and performed the titration filling the burette with HCl and taking 20 ml of NaOH solution and 2 drops of phenolphthalein in conical flask. He found out the volume of HCl consumed to reach endpoint was 10 ml.
 - a) Define neutralization reaction and neutralization curve. Calculate the normality of NaOH (4)
 - b) Write short notes on titration between strong acid and strong base (5)
 - c) Define common ion effect. (1)

Group C (Long Answer Questions: Attempt Any Four)

[4×5=20]

1. Describe different Impurities in Precipitates of Thermogravimetric analysis
2. Define error. Describe various types of errors occurring in analysis.
3. Discuss the method for determination of chloride of ORS by precipitation titration.
4. Write down the various theories of indicators.
5. Write down method for analysis of copper sulphate by redox method

Group D (Write Short Notes: Any Five)

[5×2=10]

1. Define iodimetry and iodometry
2. Define thermogravimetric analysis
3. Write down any four rules of significant figures.
4. Calculate the amount of copper sulphate to prepare 50 ml of 5% copper sulphate solution in water.
5. Write down limitations of Arrhenius concept of acids and bases
6. Short notes on theory of redox titration

- The End -