Roll No. ☐☐☐☐☐☐☐☐☐☐☐   Total No. of Pages : 02

Total No. of Questions : 10

B.Pharma (2012 to 2016) (Sem.–1)
PHARMACEUTICAL ANALYSIS–I
Subject Code : BPHM-103
M.Code : 46203

Time : 3 Hrs.   Max. Marks : 80

INSTRUCTIONS TO CANDIDATES :

1. SECTION-A is COMPULSORY consisting of FIFTEEN questions carrying TWO marks each.
2. SECTION-B contains FIVE questions carrying FIVE marks each and students have to attempt any FOUR questions.
3. SECTION-C contains FOUR questions carrying TEN marks each and students have to attempt any THREE questions.

SECTION-A

1. Answer briefly :

   a. Buffer capacity.

   b. Difference between Arrhenius and Lewis acid base theory.

   c. Standard Reduction Potential and its representation.

   d. Indeterminate errors.

   e. Primary standards.

   f. How you will preparation of 0.1 N of Sodium thiosulphate solution?

   g. Principle of estimation of sodium chloride by Mohrs method.

   h. Define Precision and how it differs from accuracy?

   i. What do you mean by the term digestion?

   j. What is common ion factor?

k. Starch is added near to the end point of titration, why?

l. What do you mean by Iodometry titrations?

m. Name two redox indicators

n. What do you mean by term co-precipitation?

o. Effect of common ion on solubility.

SECTION-B

2. Name all theories of Acid base indicators and explain one in detail.

3. Taking a suitable example, explain the titration curve of weak base and strong acid.

4. Explain different analytical techniques.

5. Explain Von weimann ratio.

6. Principle, procedure and reaction involved in assay of sodium carbonate.

SECTION-C

7. What are oxidizing agents? Give the molecular and equivalent weight of Potassium permanganate in alkaline and acidic medium. Discuss the preparation and standardization of potassium permanganate solution in detail.

8. Write short notes on :

   a. Standard reduction potential and Nernst equation.

   b. Advantages and disadvantages of gravimetric titrations.

9. Name the different method for end point determination in precipitation titration. Discuss in detail Mohr and Vohlard method

10. Give a detailed account of sources and type of errors and enumerate the minimizing methods.

NOTE : Disclosure of Identity by writing Mobile No. or Making of passing request on any page of Answer Sheet will lead to UMC against the Student.