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Total No. of Pages : 02

Total No. of Questions : 10

**B.Pharma (2011 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) What is common ion effect?
- (b) Which parameter is used to compare strengths of two acids?
- (c) Give examples of two self indicating titrants.
- (d) Define Peptization.
- (e) Which indicator will you prefer for titration of acetic acid against sodium hydroxide?
- (f) Give Nernst equation and its significance.
- (g) What special treatment is given to water while preparing sodium thiosulphate solution?
- (h) Give examples of four redox indicators.
- (i) Define supersaturation.
- (j) How precision of an experiment can be increased?

- (k) What is buffer and buffer capacity?
- (l) Define formal potential.
- (m) Explain the principle of back titration.
- (n) What are argentimetric titrations?
- (o) Define organic precipitants.

### SECTION-B

- 2. How to minimize systematic errors?
- 3. What are neutralization curves? Explain giving examples of each type.
- 4. Describe Mohr's method in precipitation titrations.
- 5. Write a note on thermogravimetric curves of copper sulphate.
- 6. Differentiate between co-precipitation and post precipitation.

### SECTION-C

- 7. What is gravimetric analysis? Discuss principle and steps involved in gravimetric analysis.
- 8. What is the importance of quantitative analysis in quality control of pharmaceuticals?
- 9. Explain the concept of oxidation and reduction. Write detailed note on redox titrations.
- 10. Give elaborate account on titration involving sodium-2,6-dichlorophenol indophenols.

**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.**