

www.FirstRanker.com

www.FirstRanker.com

Total No. of Pages : 02

Total No. of Questions : 13

B.Pharma (2017 & Onwards) (Sem.–1) PHARMACEUTICAL ANALYSIS-I Subject Code : BP-102T M.Code : 74645

Time: 3 Hrs.

Max. Marks : 75

INSTRUCTIONS TO CANDIDATES :

- 1. SECTION-A is COMPULSORY consisting of TEN questions carrying TWO marks each.
- 2. SECTION-B contains THREE questions carrying TEN marks each and student has to attempt any TWO questions.
- 3. SECTION-C contains NINE questions carrying FIVE marks each and student has to attempt any SEVEN questions.

SECTION-A

ercorr

1. Explain briefly :

- (a) Define accuracy and precision.
- (b) What is a significant figure?
- (c) What is a mixed indicator? Give an example.
- (d) Define formal potential.
- (e) What is common ion effect?
- (f) What is co-precipitation? How it can be minimized?
- (g) What is the pH of 0.01 M solution of HCl?
- (h) Why an aqueous solution of sodium acetate in alkaline?
- (i) Write balanced chemical equation for reaction between $Ce(SO_4)_2$ and Oxalic acid.
- (j) Differentiate between iodimtery and iodometry.



SECTION-B

- 2. Explain in detail the theories of indicator action. How do you select an appropriate indicator for a titration?
- 3. Write about principle, balanced chemical equations and general calculations for standardization of Na₂S₂O₃. Give application of Na₂S₂O₃ in estimation of CUSO₄.
- 4. (a) Differentiate between co-precipitation and post-precipitation. How these can be minimized?
 - (b) Explain the principle involved, chemical reactions, procedure and general calculations for gravimetric estimation of barium as BaSO₄.

SECTION-C

- 5. Define a buffer solution. How it works? Derive the equation to calculate its pH.
- 6. Explain Mohr's method in detail.
- 7. Write an account on various internal indicators used in redox titrations.
- 8. How do you prepare a 0.1M solution of Ceric ammonium sulfate? Explain its standardization giving balanced chemical equations and general calculation.
- 9. Explain the concept of masking and demasking with examples and one application.
- 10. Give a detailed account on assay of ephedrine hydrochloride.
- 11. What is the principle of conductometric titrations? Explain their applications.
- 12. Give the construction and working of calomel electrode with the help of neat diagram.
- 13. Define error. Discuss various types of errors and methods to minimize these.

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.