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. of	Pages	: 0	2
	. of	. of Pages	. of Pages : 0

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:

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

SECTION-A

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?
- Write balanced chemical equation for reaction between Ce(SO₄)₂ and Oxalic acid.
- Differentiate between iodimtery and iodometry.

1 M-74645 (S29)-2331

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SECTION-B

- 2. Explain in detail the theories of indicator action. How do you select an appropriate indicator for a titration?
- 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

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

2 M-74645 (S29)-2331

