

MV-014-003105

Seat No. ____

M. P. M. (Sem. I) (CBCS) Examination January - 2018 Pharmaceutical Analysis - I (BP - 103)

Faculty Code: 014 Subject Code: 003105

Time: 3 Hours [Total Marks: 80

Instructions: (1) Figures to the right indicate marks.

- (2) Answers any three questions from each section question one and question five are compulsory.
- (3) Draw neat and clean diagram when required.

SECTION - I

1 Answer the following questions: (any seven)

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- a) Comment: Solution of Salt (derived from strong base and weak acid) will be basic.
- b) Comment: Phenolphthalein remains colourless at acidic pH and gives pink colour at basic pH.
- c) Explain: Oxidising and reducing agent with example.
- d) Define Accuracy and Precision.
- e) What is pM indicator?
- f) Comment: Acetic acid is a amphiprotic solvent.
- g) Composition of Karl Fischer reagent
- h) Classify ligand with example.
- 2 Answer the following questions:
 - a) Discuss types of solvent in Non aqueous titration.
 - b) List out indicators used in redox titration. **6**What is self indicator? Discuss KMnO₄ as a self indicator in redox titration.

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3	Answer the following question:		
	a)	Explain: Neutralization curve of Strong acid with	7
		strong base titration.	
	b)	Describe diazotization nitrite titration.	6
4	Answer the following questions:		
	a)	Discuss Karl Fischer Titration.	7
	b)	What do you mean by differentiating and levelling	6
		solvents? Explain with example.	
		SECTION - II	
5	Answer any two out of three:		
	a)	Short note on ComplexoMetric titration	
	b)	Discuss: Principle with reaction involved in Mohr's mrthod.	
	c)	Discuss Kjeldahl method.	
6	Answer the following questions:		
	a)	Define pH and Derive Handerson - Hesselbach	7
		equation for acid and base.	
	b)	Discuss: Theory of acid - base indicators.	6
7	Answer the following questions:		
	a)	Discuss Theories of Acid - Base.	7
	b)	Discuss importance of quality assurance and quality	6
		control in formulation analysis.	
8	Answer the following questions:		
	a)	Write a note on Gravimetric Analysis.	7
	b)	What is pharmaceutical analysis? Give its application.	6