

JN-1612030701030300 Seat No. _____

Master of Pharmacy Management (Sem. III) (CBCS) Examination

August / September - 2019

Pharmaceutical Analysis - I

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Tim	ie : 3	Hours] [Total Marks :	80
Ins	truct	ions: (1) Answer and tie up both the sections separate (2) Figure to the right indicates marks	tely
		(3) Answer three (03) questions from each sect	tion
		(4) Question one (01) and question five (05) compulsory	are
		(5) Draw neat and clean diagrams as require	d
		SECTION - I	
1	Ans	wer the following question: (Any Seven)	14
	(a)	Why drug analysis is important?	
	(b)	Why calibrated glassware is to use for analysis?	
	(c)	Comment: Calibration and validation both are same.	
	(d)	Comment: All types of glassware can be used for analysis.	
	(e)	How will you prepare 1N and 1M solution of NaOH?	
	(f)	Draw a neutralization curve for strong acid and strong base titration.	
	(g)	What is acidimetry and alkalimetry titration?	
	(h)	Which type of titrimetric method is used for heavy metal determination?	
	(i)	Comment: End point determination is possible without the use of indicator.	
	(j)	What is aqueous and non-aqueous titration?	
2	Ans	wer the following questions :	
	(a)	What is the significance of calibration? Give advantages of calibration. How will you calibrate pH meter?	7
	(b)	Discuss the role of quality assurance and quality control in pharmaceutical industry.	6

3	Answer the following questions:				
	(a)	What is the principle of volumetric titration?	7		
		Discuss primary and secondary standard substances.			
	(b)	Discuss the Henderson-Hesselbach equation and	6		
		give their applicability in volumetric titration.			
4	Answer the following questions:				
	(a)	What is redox titration? How they are different from	7		
		acid base titration? Discuss with example.			
	(b)	Write an informative note on : Volhard's method of titration.	6		
		SECTION - II			
5	Ans	Answer the following questions: (Any Two)			
	(a)	Why standardization is important in titration? How			
		will you standardize NaOH and KmnO ₄ solution?			
		Discuss.			
	(b)	Write an informative note on : Karl-Fischer titrations.			
	(c)	What is the difference between back and blank titration?			
		Why such titration methods are used? Discuss with			
		example.			
6	Ans	Answer the following questions:			
	(a)	Discuss the principle of bromometry and	7		
		permanganometry.			
	(b)	Discuss gravimetry method with example.	6		
7	Ans	Answer the following questions:			
	(a)	Briefly discuss Mohrs, and Fajans methods of	7		
		analysis.			
	(b)	Write a note on complexometric titrations.	6		
8	Ans	Answer the following questions:			
	(a)	Differentiate: Iodometry and Iodimetry titration	7		
		with example.			
	(b)	Discuss: Kjeldahl method titrations.	6		