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SGU	**Sanjay Ghodawat University, Kolhapur** Established as State Private University under Govt. of Maharashtra. Act No XL, 2017	2019-20 EXM/P/09/00
Year and Program **First Year B.Pharmacy**	**School of Pharmaceutical Sciences**	**Department: Pharmacy**
Course Code **BP102T**	**Course Title: Pharmaceutical Analysis - I**	**Semester – I**
Date: 6/12/19 **Day :** Friday **Time:** 3hr.	**Examination: End Semester**	**Max Marks: 75** 10.30am to 1.30 pm

Instructions: 1) All questions are compulsory.

2)Draw a neat labeled diagram if necessary.

		Objective Type Questions	Marks	Bloom's Level	CO
Q.1					
	a)	What is refraction?	02	1	1
	b)	Define acids according to Lowry Bronsted theory.	02	1	1
	c)	What do you mean by specific conductance?	02	1	1
	d)	Enlist factors affecting on precipitation and explain any one.	02	1	2
	e)	Define Oxidation and reduction.	02	1	1
	f)	Explain determinant error in detail.	02	2	2
	g)	Enlist the sources of impurities.	02	1	2
	h)	Why buffer solution added in complexometric titration?	02	1	2
	i)	Describe filter paper used in gravimetric titration.	02	2	2
	j)	Calculate the amount of NaOH required to prepare 800ml of 0.5N NaOH solution.	02	3	4
Q.2		Long Answers (Answer 2 out of 3)			
	a)	Discuss in brief steps involved in gravimetric analysis.	10	2	2
	b)	Illustrate and draw the graph of neutralization curve between: i) SA Vs SB ii) WA Vs SB	10	3	2
	c)	Define complexometry titration. Enlist its types and give brief account of metallochrome indicators.	10	1	2
Q3		Short Answers (Answer 7 out of 9)			
	a)	Discuss Mohr's and Volhard's method in brief.	05	2	2
	b)	How would you classify the solvents used in non – aqueous titration along with examples.	05	4	2
	c)	Describe condition of primary standards. Give examples of primary standards and enlist terms used to express concentration.	05	2	2

d)	Discuss various theories of indicators for acid - base titration.	05	2	2
e)	How will you prepare 0.1N $KMNO_4$solutionin acidic media and also explain the procedure for standardization of same.	05	3	4
f)	Enlist the reference and indicator electrodes used in potentiometry titration? Explain in brief Standard Hydrogen electrode with diagram.	05	1,2	2
g)	What is polarography? Explain construction and working of Dropping mercury electrode.	05	2	2
h)	Explain in brief diazotization titration.	05	2	2
i)	Explain in brief Ceriometric and Dichromate titration.	05	2	2

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