Seat Numb	er	PANKH-07
	BP-102T	
	Pharmaceutical Analysis-I	
Total Page	(711102)	
Time: 3 Ho		Max Marks : 75
Note : (1)	Do not write anything on question paper ex	cept seat no.
(2)	Graph or diagram should be drawn with black	
	for writing paper or blank HB pencil.	
(3)	Students should note, no supplement will be	provided.
(4)	Figures to the right indicate full marks.	
. (A) S	Solves the Multiple Choice Questions (MCQs):	10
(Which of the following is not the character	istic of ion selective
	electrodes ?	
	(a) Easy to use	
	(b) Available in different sizes and shap	oes
	(c) It is fragile	
	(d) It is insensitive to many ions	
(ii	Which of the following forms of electrochemic	stry seeks to obtain
	the condition of full polarization?	
	(a) Potentiometry (b) Voltamet	ry
2)	(c) Coulometry (d) Electrogr	avimetry
		P.T.O.

3	tii)	Polarographic cells type of electrochemical method uses which					
		of the following concepts:	:				
		(a) Cyclic reaction	(b)	Exothermic reaction			
		(c) Reversible reaction	(d)	Redox reaction			
(j	v)	Which of the following err	rors is	caused by poor calibration of			
	i	nstrument ?					
	(a) Random error	(b)	Gross error			
	(Systematic error	(d)	Precision error			
(v)	V	Which of the following is	caused	by careless handling?			
	(a) Systematic error	(b)	Gross error			
	(c	Random error	(d)	None of the mentioned			
(vi) Carminic acid gives purple colour with :							
	(a)	acid (H+_)	(b)	Alkalis (-OH-)			
	(c)	Weak acid (H_+)	(d)	All of them			
(vii) Which one of the following statements about reaction rate is							
		se ?			(
	(a)	Reaction rate is the speed at which the reaction proceeds					
	(b)	Reaction rate is governed by the energy barriers between					
		reactions and products		Southern between			
	(c)	Enzymes can accelerate the rate of reaction.					
	(d)	Reaction rate are not sensitive to temperature.					
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		(viii)	In no	eutralization tit	ration,	acid r	react with a base to form :
			(a)	Salt and wate		(b)	Salt and acid
			(c)	Neutral solution	on	(d)	Concentrated solution
		(ix)	In a	reaction between	en CuS	O4(s)	and $Zn_{(g)}$:
			(a)	Zinc experience	es an	increa	se in oxidation state.
			(b)	Undergoes oxi	dation		
			(c)	Zinc undergoe	s oxida	tion	
			(d)	All of the abo	ve		
		(x)	The	ratio of cell const	ant and	resist	ance in conductometric titration
			is k	nown as:			
			(a)	EMF		(b)	Specific conductance
			(c)	Standard pote	ential	(d)	None of these
	(B)	Atte	mpt tl	he following:			. 10
		(i)	Defi	ne the term err	or and	enlist	types of errors.
(ii) Draw a well labelled diagram of dropping mercur				f dropping mercury electrode.			
	, ,	(iii)	Wri	te the sources o	f impu	rities	in medicinal agents.
		(iv)	Enl	ist the application	on of p	otentio	ometry.
		(v)	Wh	at is iodometry	and iod	limetr	y.
2.	Solve	any	two :				20
(i) Discuss the principle of gravimetric analysis. Enlist the			alysis. Enlist the steps involved				
				their application			
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- (ii) What is the principle of potentiometry and explain the various types of potentiometry titration.
- (iii) Write the principle of polarography with construction and working of DME and write their application.

3. Solve any seven:

- (i) Write a note on masking and demasking agents.
- (ii) Explain Volhard's method in detail.
- (iii) Describe diazotization titration with application.
- (iv) What are primary standard substances? Explain with their example.
- (v) What do you mean by error? Explain the sources of errors.
- (vi) Write a note on acid-base indicator.
- (vii) Write a short note on rotating platinum electrode.
- (viii) Write the theory of redox titration.
- (ix) Explain the concept of co-precipitation.

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