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Code No: BP102T		P102T PCI	SET - 1					
	I	B. Pharmacy I Semester Regular/Supplementary Examinations, February -	2020					
Time: 3 hours Max.								
		 Note: 1. Question paper consists of three parts (Part-I, Part-II & Part-I 2. Answer ALL (Multiple Choice) Questions from Part-I 3. Answer any TWO Questions from Part-II 4. Answer any SEVEN Questions from Part-III 	II)					
<u>PART –I</u>								
1.	(i)	Calcium ion can be estimated by using the reagent (a) NaNO ₂ (b) H ₂ SO ₄ (c) EDTA (d) NaOH		(1M)				
	(ii)	If a pharmaceutical product is listed in any Pharmacopoeia, it is called as (a) spurious drug (b) official drug (c) rejected drug (d) approved drug		(1M)				
	(iii)	When is dissolved in water, the solution will become acidic. (a) NaCl (b) NH ₄ Cl (c) NaOAc (d) NH ₄ OAc		(1M)				
	(iv)	indicator is used for pH 8-9 (a) Thymol blue (b) bromothymol blue (c) methyl violet (d) phenolphtha	lein	(1M)				
	(v)	 is not essential for a primary standard.(a) Purity (b) Stability (c) low hygroscopicity (d) high molecular weight	t	(1M)				
	(vi)	AgNO ₃ is used for limit test of (a) Chloride (b) sulfate (c) Iron (d) Lead		(1 M)				
	(vii)	In complexometric titrations, is used for masking Fe^{+3} ion. (a) Triethanolamine (b) NaCN (c) sodium hydroxide (d) Na ₂ CO ₃		(1M)				
	(viii) is used as solvent for preparing 0.1N perchloric acid solution.(a) ethanol (b) acetic acid (c) chloroform (d) water							
	(xi)	Colloids scatter the light due to (a) Tyndall effect (b) Brownian motion (c) Raman effect (d) Fluorescend	ce	(1M)				
	 (x) A lipophilic weak acid is preferably estimated by using titrati (a) aqueous (b) non-aqueous (c) complexometry (d) gravimetry 							
	(xi)	Reduction involves(a) loss of electrons(b) addition of oxygen(c) gain in electrons(d) loss of hydrogen		(1 M)				
	(xii)	A calomel electrode is an example of(a) a fuel cell(b) reference electrode(c) ion selective electrode(d) electrolytic cell		(1 M)				
	(xiii)	In a reaction between CuSO _{4(s)} and Zn _(s) , (a) copper gains electrons (b) copper is being reduced (c) copper experiences a decrease in oxidation state (d) all of the above		(1M)				
	(xiv)	 Which of the following is not an Oxidizing agent? (a) potassium iodide (b) potassium manganate (c) potassium dichromate (d) bromine solutions 		(1M)				



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(xv) (xvi) (xvii) (xviii) (xix) (xx)		 v) If acidified Potassium Manganate (VII) acts as oxidizing agent, color changes from (a) grange to red (b) Purple to grange (c) Purple to gelourless (d) valley to red 					(1M)			
		vi)	 (a) orange to red (b) r urple to green (c) r urple to colourless (d) yenow to red (i) Formation of a precipitate is necessary for							
		vii)	 ii) Values of E^o for the Ce⁴⁺/Ce³⁺ and Fe²⁺/Fe half-cells are +1.72 and -0.44 V, respectively. From these data you can conclude that: (a) Ce⁴⁺ will oxidize Fe² (b) Ce⁴⁺ is a better oxidizing agent than Fe²⁺. (c) Ce³⁺ is a better oxidizing agent than Fe²⁺ (d) Ce³⁺ will oxidize Fe 							
		viii)	 An electrochemical cell consists of two copper electrodes dipping into aqueous CuSO₄ solution; the electrodes are connected to a battery. Which statement about the electrolysis process in this cell is incorrect? (a) Reduction occurs at anode (b) Copper is deposited on cathode (c) Cu⁺² ions are produced at anode (d) Copper is transported from anode to cathode 							
		 x) Standard hydrogen electrode has an arbitrarily fixed potential at volt (a) 0.00 (b) 1.00 (c) 0.10 (d) None of the above 				(1M)				
		x)	 The Potential at the point on the polarographic wave where the current is equal to one half of the diffusion current is termed as (a) Half wave current (b) full wave Current (c) half wave Potential (d) full wave Potential 							
2.	a)) Enumerate methods used for reducing errors.			(5M)					
	b)	Wri	te a note on Pharmacopoeias.				(5M)			
3.	a)	Classify acid base titrations with examples. Write in brief on neutralizing curves.		urves.	(5M)					
	b)	Wri	te principle and procedure involved in	estimation of	MgSO _{4.}		(5M)			
4.	a)	Wit	h a neat sketch explain construction of	dropping mer	cury electrode.		(5M)			
	b)	Dise	cuss the methods used to determine end	l point in pote	ntiometric titration	IS.	(5M)			
			<u>P</u>	ART -III						
5.		Wri	te a note on determinate errors.				(5M)			
6.		Exp	lain the role of reaction process as a so	urce of impur	ity.		(5M)			
7.		Exp	lain the principle, chemistry and signif	icance of limi	t test for iron.		(5M)			
8.		Wri	te in brief on metal-ion indicators.				(5M)			
9.		Exp	lain the principle, procedure and applic	cations of Mol	nr's method.		(5M)			
10.		Wri	te in detail on Iodimetry.				(5M)			
11.		Exp	lain the construction and working of ca	alomel electro	de.		(5M)			
12.		What	at is Ilkovic equation? Explain its signi	ficance.			(5M)			
13.		Dise	cuss the methods used for expression or www.FirstRa	f concentratio	n.		(5M)			