Bachelor of Pharmacy (B.Pharm) (CBCS Pattern) First Semester BP 102T- Pharmaceutical Analysis-I

P. Pages: 3 Time: Three Hours			* 3 0 0 9 *			GUG/W/18/10871 Max. Marks :75		
		1. 2. 3. 4.	Assume suitable data who Diagrams and Chemical e Discuss the reaction, Med All Questions are compul	equation sl hanism w	hould be given wherever	necessary.		
1.	Multiple choice questions.							
	i) May be defined as an essential or distinctive characteristic, property or a					perty or attribute.		
		a)	Purity	b)	Quantity			
		c)	Quality	d)	None			
	ii)	% '	w/w express the					
	,	a)	No. of g. of solute in 100	00g. of pro	oduct.			
		b)	No. of g. of solute in 100					
		c)	No. of g. of solute in 100	-				
		d)	No. of ml of solute in 10	0ml of pro	oduct.			
	iii)	ions of the						
	111)		periments.	oss, macco	personal innitial			
		a)	Instrumental Error.	b)	Method Error.			
		c)	Equipment Error.	d)	personal Error.			
	iv)	The	ne numerical figure having how many significant figures.					
	11)	a)	Two	b)	Four			
		c)	Three	d)	None of these.			
v) A measurement which on repetition gives the same or nearly same result is								
		a)	Accurate Measurement	b)	Average Measuremen			
		c)	Precise Measurement	d)	Estimated Measurem	ent		
	vi)	Pri	mary standard should be					
	,	a)	Inert	b)	Low molecular weigh	nt		
		c)	Not stable	d)	None of there			
	vii)	An	nphiprotic Solvents are bot	h				
	V11)	a)	Aprotic, Protophilic	b)	Protophilic, Protogen	ic		
		c)	Protogenic, Aprotic	d)	None of these			
	viii							
	V 111	a)	s defined as the negative lo pOH	b)	pH			
		c)	pKa	d)	pKw			
	ix)	Į ir	nit test for arsenic involve	formation	of vellow stain on more	puric chloride paper		
	1X)	due		TOTTHAUIOII	tor yellow stallfoll lifero	arie emoriae papei		
		a)	H ₂ S gas	b)	CO ₂ gas			
		c)	Arsine gas	d)	Nitrogen gas.			

x)	The role of citric acid in limit test for Iron is to prevent.								
	a)	Oxidation	b)	Precipitate formation					
	c)	Neutralization	d)	Reduction.					
			,						
xi) Titration of which is done by using perchloric acid.									
111)	a)	Weak acid	b)	Weak base					
	,	Very strong acid	d)	Very weak acid					
	C)	very strong deld	u)	very weak deld					
vii)	A 00	Acetic acid, water and alcohol are the example of.							
XII)		a) Aprotic solvent b) Protogenic solvent							
		•	,	•					
	c)	Protophilic solvent	d)	Amphiprotic solvent					
•••	G . 1								
X111)		bility complex is based on.	• \	PH.					
	,	Acid base equilibrium	b)	P ^H					
	c)	Law of mass action	d)	None of these					
xiv) The reagent which undergoes reduction is an agent and the reagent which undergo									
	oxi	dation is agent.							
	a)	Oxidizing, Reducing	b)	Reducing, Oxidizing					
	c)	Complexing, Reducing	d)	None of these					
	ŕ		ŕ						
xv)	Cer	ic ammonium sulphate and titar	nous c	hloride are agents respectively.					
	a)	Reducing, Oxidizing	b)	Oxidizing, Reducing					
	c)	2	,	All of the above					
	C)	Chelator, Freeiphate	u)	This of the doove					
vvi)	Sne	ecific conductivity of pure water	r ic						
AV1)	-	· -		Q 1 1					
	a)	$6 \times 10^{-8} \text{ ohm}^{-1} \text{cm}^{-1}$.	b)	$5 \times 10^{-8} \text{ ohm}^{-1} \text{cm}^{-1}$.					
	c)	$-6 \times 10^{-8} \text{ ohm}^{-1} \text{ cm}^{-1}$.	d)	$-5 \times 10^{-8} \text{ ohm}^{-1} \text{ cm}^{-1}$.					
	•)	5 / 13 Simi Sim	α,	• • • • • • • • • • • • • • • • • • • •					
v wii	Hv	drogen electrode is a							
AVII,	a)	Reference electrode	b)	Indicator electrode					
			,	None of the above					
	c)	Both of the above	d)	None of the above					
	·\								
XV11	_	cell is the sum of	_						
	a)	E indicator + E Reference + E							
	b) E Junction + E Reference + E Indicator								
	c) E Indicator + E Junction + E Junction								
	d) E Reference + E Indicator + E Junction								
xix)	x) Diffusion current can be correlated with different conditions by								
	a)	Nernst Equation	b)	Bragg's Equation					
	c)	Illkovic's Equation	d)	Beer's Equation					
	,	1	,	1					
xx) In polarograph supporting electrode must have									
11/1)	a)	High Reduction potential	b)						
	a) c)	Low Reduction Potential	d)	Low Oxidation Potential					
	C)	Low Reduction I otennal	u)	LOW OXIGATION I OTERNAL					
A ++ ~	mnt	any two following							
Aue	mpt	any two following							

2.

20

Define pharmaceutical Analysis and write in detail about different techniques of analysis i)

- ii) What is gravimetric Analysis write in detail about different steps involve in gravimetric Analysis
- iii) Write in detail about titrations performed by conductometry with it's applications

3. Attempt any seven following

35

- i) What are the methods for expressing concentration.
- ii) Explain the limit test for heavy metal.
- iii) Give a classification of acid-base titration.
- iv) What are the errors? How errors are minimized.
- v) Write about masking and demasking agents with estimation of calcium gluconate.
- vi) Explain Volhard and modified Volhard's method
- vii) Explain about Iodimetry? Iodometry
- viii) Write standardization methods for KMnO₄ and H₂SO₄
- ix) Explain construction and working of dropping mercury Electrode.
