DR. BABASAHEB AMBEDKAR TECHNOLOGICAL UNIVERSITY LONERE - RAIGAD - 402 103

Winter Semester Examination - December - 2019

Course: B.Pharm. Subject: Pharmaceutical Analysis-I (BP102T)			Semester: I Marks: 75
Instru	ctions:	i) All questions are compulsory	
		ii) Figures to the right indicate full marks	
		iii) Draw the diagrams or flow charts wherever necessary.	
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Q.No.1		pt the following questions (All Questions Compulsory)	(20 Marks)
	1.	Concentration is not expressed is	
		A. w/v	
		B. v/w	
		C. v/v	
		D. w/w	
	2.	Ionic product of water is	
		A. 1 x 10 ⁻¹³	
		B. 1 x 10 ⁻¹⁴	2222
		C. 1 x 10 ⁻¹⁵	5,000
		D. 1 x 10 ⁻¹⁶	
	3.	Which of the following is primary standard substance?	\$5.7
		A. Oxalic acid	
		B. Sodium Hydroxide	
		C. Potassium Permagnate	
		D. All of Above	
	4.	Indeterminate error is also called as	
		A. Operational error	
	ć	B. Instrumental error	
	, C	C. Error of method	
	2000	D. Random error	
4	5 ,	How many grams of Sodium hydroxide will be required to prepa	re 250 ml of
[6]	0000	0.1N solution?	
45		A. 10	
		B. 19 C. C. N. C.	
		C. 0.1	
		D. 0.01	
3 2 7	6.	What is color change interval of methyl Red (pH Change)?	
Property	X SXX	A. 0.8-1.2	
A SO NO	CONT.	B. 1.2 – 2.8	
\$ 0 Z	2 10 9 1	C. 2.8 – 3.6	
	A Proposition	D. 4.2 – 6.3	
	7.	Number of moles of solute per 1000 gm of solvent gives	solution.
		A. 1 Molar	
	2000	B. 1 Molal	
\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$		C. 1 Normal	
80,80		D. 1 Percent	
0000	8.	In titration of weak base with weak acid, the solution at equivale	nce point will be
3000	20 00 VO	7-2	
43.43	1000	A. Neutral	
/\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	5.00	B. Acidic	

C. Basic			
D. No change in pH			
9. Methanol is solvent used in Non-aqueous titration.			
A. Aprotic			
B. Protogenic			
C. Protophilic			
D. Amphiprotic			
10. The indicator employed in Volhards method is			
A. Ferric ammonium sulphate			
B. Ferroin			
C. Crystal violet			
D. None of these			
11. Dead stop end point method is also known as			
A. Potentiometry			
B. Conductometry			
C. Titration with 2 indicator electrodes			
D. Titration with indicator and reference electrode			
12. The conductance that changes on dilution is conductance.			
A. Molar			
B. Equivalent			
C. Specific			
D. All of these			
13. Drop of mercury in DME acts as electrode.			
A. Reference			
B. Indicator			
C. Hydrogen			
D. Calomel			
14. Titrations with standard solution of Iodine are termed as			
A. Iodometry			
B. Iodimetry			
C. Redox			
D. All of these			
15. EDTA is popularly employed as a			
A. Multidentate ligand			
B. Complexing agent			
C. Chelating agent			
D. All of these			
16. Ferrous sulphate is assayed by titration.			
A. Ceriometry			
B. Iodimetry			
C. Mercurometry			
D. Bromatometry			
17. Which of the following Titrant is act as self-indicator?			
A. Potassium Permagnate			
B. Silver Nitrate			
C. Sodium Hydroxide			
D. Hydrochloric Acid			
18. Diazotization method is carried out for following compound			
A. Aromatic Amine			
B. Phenol			
C. Aromatic Aldehyde D. Aromatic Ketone			
D. Alumanc Neighe			

- 19. Glass electrode is example of ----- electrode.
 - A. Reference
 - B. Ion selective
 - C. Indicator
 - D. Both B & C
- 20. What is emf -----.
 - A. Electro motive force
 - B. Electron motion force
 - C. Electro motion force
 - D. All of these

Q.No.2 Attempt any TWO questions of the following:

(20 Marks)

- A] Explain different types of Acid-Base titration; add a note on neutralization curve.
- B] Explain various steps involved in gravimetric analysis.
- C] Give the theory behind conductometry. Explain different shapes of graphs obtained during acid-base titrations. Define different conductances and add note on effect of dilution on conductances.

Q.No.3 Attempt any SEVEN questions of the following:

(35 Marks)

- A] Write a note on theories of indicator.
- B] Explain types of errors and methods to minimize the errors.
- C] Write a note on Diazotization method.
- D] Differentiate between Mohr's and Volhard's method.
- E] Write a note on different types of Complexometric titration.
- F] Write in details about solvents used in non-aqueous titrations with appropriate examples.
- G] Explain principle involved in conductometric titrations and give its applications.
- H] Write short note on reference electrodes.
- I] Give basic principle of Polarography. Explain construction and working of DME with its advantages and disadvantages.

---- END OF PAPER ----