

BRAINWARE UNIVERSITY

Term End Examination 2018 -19

Programme - Bachelor of Pharmacy

Course Name - Pharmaceutical Analysis I

Pharmacet fical Technology Pharmacet fical Technology Brainwr e University Barasat, Lalicia-700125

Course Code - BP102T

(Semester - 1)

Time allotted: 3 Hours

Full Marks: 75

[The figure in the margin indicates full marks. Candidates are required to give their answers in their own words as far as practicable.]

Group -A

(Multiple Choice Type Question)

 $20 \times 1 = 20$

- 1. Choose the correct alternative from the following
- (i) Voltametry is an example of what kind of analytical method?
 - a. Volumetric method
- b. Analytical spectroscopic method
- c. Analytical separation method
- d. Electroanalytical method
- (ii) The equivalent weight of hydrochloric acid is:
 - a. 37

b. 50

c. 36.5

- d. 40
- (iii) Which of these is a hyphenated technique of analysis?
 - Gas chromatography-Mass spectroscopy
- Differential scanning calorimetry
- c. Capillary electrophoresis
- d. None of the above

- (iv) Molarity is expressed as
 - a. Number of moles of solute in 1000 ml of solvent.
- b. Number of moles of solute in 1000 ml of solution.
- c. Number of equivalent weights of solute in 1000 ml solution.
- d. None of the above.
- (v) Which one of the following is a primary standard?
 - a. Oxalic acid

b. Sodium hydroxide

c. Perchloric acid

d. Hydrochloric acid

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(xvi) The titration of ammonium thiocyar commonly termed as	nate [NH ₄ SCN] vs silver nitrate [AgNC	0 ₃] is
	a. Volhard's method	b. Mohr's method	
	c. Fajan's method	d. None of these	
(xvii	i) Which of these is a self-indicator?		I llamani.
(xix	a. Potassium permanganate c. Iodine Potassium permanganate is used in	b. Sodium chloride Pharmace Braining d. Sodium hydroxide Bara	7 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 -
	a. Non aqueous titration	b. Redox titration	
	c. Acid base titration	d. Argentometric titration	
(xx	pM indicators are used in		
	a. Complexometric titration	b. Iodometry	
	c. Cerimetry	d. Redox titration	
	C	roup – B	
		1.95 Str. Ud. 200	
	(Short Answ	ver Type Questions)	$7 \times 5 = 35$
 Answer any seven from the following Write a short note on different kind of errors and ways to minimize them. Describe the method for preparation and standardization of 1M hydrochloric acid 			
27	solution.		5
4.	Give the definition of Pharmaceutical	5 5	
5. 6.	Explain Ostwald's theory of indicators Explain Quinonoid theory of indicator	5	
7.	Write short note on pM indicators.	3 in dela ouse matton.	5
8.		ining 0.2 moles per litre CH ₃ COONa an	nd
	0.15 moles per litre CH ₃ COOH. Ka for		5 5
9.	The state of the s		
10. What is conductivity water and how it is prepared.			5
	G	roup – C	
	(Long Answ	wer Type Questions)	$2 \times 10 = 20$
	ver any two from the following Describe the preparation and standar	dization of 0.02M potassium perman	
12.	solution. (a) Write about redox indicators.		10 4
14.	(b) Explain Fajan's method of Argen	ntometric titration.	6
13.	(a) What is Werner's coordination in		4
	(b) Write a note on masking and den		6