

NAV-003-047201 Seat No. _____

B. Voc. (Pharm. Analysis & QA) (Sem. II) (CBCS) Examination

March / April - 2017

BVPAQA - 201: Pharmaceutical Analysis

Faculty Code: 003 Subject Code: 047201

Time: 3 Hours]				[Total Marks : 70		
Instructions		:	(1)	All questions are compulsory and camarks.	rry equal	
			(2)	Draw diagram and/or scheme wherever	necessary.	
1 (A)	Ansv	vei	r the	following multiple choice questions:	10	
	(1)		pola sed.	arimetry experiments, light	nt is	
	(2)			is used as reference electrod ometric titrations?	e in	
	(3)		ue va	is known as closeness of test resulatue.	lts to	
	(4)	Why oxygen purging is carried out in polarography before the commencement of process?				
	(5)	-		ative and quantitative analysis car ned by Amperometric titration. True or f		
	(6)	A solution that has equal amounts of left- and right-handed enantiomers of a chiral molecule is called				
	(7)	The unit of conductivity of solution is				
	(8)	th	an at	e is a mixture of strong acid and strong t the stating part of process the conduct (high or low).		
	(9)			is the primary structural requirement tical active substance?	s for	
	(10)	W	ien (effect is the related with	and	
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20 (B) Answer the following multiple choice questions: (1) Which two methods of electrochemical analysis are similar in the respect of data of the equipment point? (2)Draw a typical Polarogram. (3)What are the reasons behind adding supporting electrolyte and keeping shunt in the Polarograph? **(4)** Define 1) signal and 2) noise. What is SNR? Substance which rotates the plane of polarized (5)light towards right side is called rotatory and substance which rotates the plane of polarized light towards left side is called _____ rotatory. (6) Enlist any 4 advantages of potentiometric titration. (7)Why racemic mixtures are optically inactive? According to Ohm's Law, electric current is (8) _____ to voltage and _____ to resistance. (9)Comment: specific conductance decreases with dilution. (10) Draw the schematic diagram of conductometer. And give brief introduction of it. $\mathbf{2}$ 20 Answer any 4 out of the following 6 questions: (1)Write a brief note on Conductometric titration. Discuss its advantages. (2) Explain the importance of analytical instrument validation method. Discuss all major the protocols in detail. (3)Describe Potentiometric titration in detail. (4) Explain the Neutralization titration of acid and base. Draw curves for explanation. Discuss the advantages and limitations of instrumental (5)analytical methods.

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- (6) Explain following terms in brief:
 - (a) Precision
 - (b) Accuracy
 - (c) Robustness
 - (d) Linearity
 - (e) S/N ratio
- 3 Answer any 4 out of the following 6 questions: 20
 - (1) Enlist and explain applications of Optical Activity.
 - (2) Describe principle and construction of polarimeter.
 - (3) Draw and explain the apparatus of Polarography.
 - (4) Describe the factors affecting limiting current.
 - (5) What is dead stop end point method? Explain in detail.
 - (6) Discuss merits and demerits of amperometric titrations.