Roll No. .... **BP-102T** 

# (MOCK EXAM-1) B.Pharm. (First Semester)

## **End Semester Examination February , 2022**

# Paper Second

## Pharmaceutical Analysis-I

Time: Three Hours]		[Maximum M	larks: 80
Note: Part A: Multiple ch	oice questions $(20 \times 1)$ (Att	empt all 20 questions.	Each question
carries 01 mark)			
Part B: Long Answers:	Attempt any 2 questions o	ut of 3 questions. Ea	ach carries 10
marks.			
Part C: Short Answers : At	tempt any 7 questions out of	9 questions. Each car	ries 5 marks
Part -A			
Q.1. Blank determination is of	one in which		
a. Sample is omitted	b. Sample is taken	c. a& b	d. None
Q.2. How many significant fi	gures are there in 2.4580		
a. 5	b. 4	c. 6	d. None
Q.3. No. of gm equivalent weight of substance dissolved in 1 lit. of solution is			
a. Molarity	b. Normality	c. Molality	d. Formality
Q.4. Example of primary star	ndard is		
a. KMnO4	b. Oxalic acid	c. HCl	d. NaOH
Q.5. According to which of the acid base theory, acid is a molecule or ion that accepts an e <sup>-</sup> pair			
to form a covalent bond			
2	b. Arrhenius	c. Lewis	d. None
Q.6. Balance between two opposing forces or actions is known as			
a. Buffer action	b. Chemical Equilibrium	c. common ion effect	d. pH
Q.7. pH of $[H^+]= 10^{-6}$ g ion/l	it is		
a. 7	b. 10	c. 6	d. 5
Q.8. Solution which possesses resistance to changes in H <sup>+</sup> conc. upon addition of an acid or base			
is termed			
a. Buffer Solution	b. Standard Solution	c. Sample solution	d. None
Q.9. To increase the selectivi	b. Standard Solution ty of EDTA titrations	can be done.	
	b. Use of precipitating agent		
Q.10. Titrations involving Quantitative analysis by weight are			
	b. Precipitation		d. None
Q.11. In diazotization titratio	n the titrant used is		
a. Sodium hydroxide	b. Sodium nitrite	c. Sodium chloride	d. None
Q.12. Process of dispersing a	n insoluble material into a liqu		
a. Peptization	b. Coagulation	c. Precipitation	d. None
Q.13. Which of the following method involves use of potassium chromate indicator			
a. Volhard's	b. Mohr's	c. Fajan's	d. Gay Lussac
Q.14. Those processes in which standard iodine $(I_2)$ solution is used as an oxidizing agent ARE			
a. Iodimetry	b. Iodometry	c. Bromametry	d. None
Q.15.Perchloric acid can be s	tandardized by using		

- a) benzoic acid b) oxalic acid potassium hydrogen c) phthalate d) tartaric acid Q.16. Chlorine has an oxidation number of +5 in a. NaClO b. NaClO<sub>2</sub> c. NaClO<sub>3</sub> d. NaClO<sub>4</sub> Q.17. The shape of Current-Voltage (CV) curve in polarography is a. S-shape b. T-shape c. L-shape d. - Shape O.18. The full form of DME is a. Direct metal electrode b. Dropping mercury electrode c. Diffusion mercury electrode d. Derivatize mercury electrode Q.19. The diffusion current  $(i_d)$  in polarography is; a. Current arises due to migration of ion from electrode to the bulk electrolyte b. Current arises due to migration of ion from bulk electrolyte to electrode
- c. Both a & b d. None of the above
- Q.20. The standard electrode potential is
- a. Electrode potential at infinite ion activity b. Electrode potential at unit ion activity
- c. Electrode potential at 100<sup>th</sup> ion activity d. Electrode potential at null ion activity

#### Part B Attempt any 2 questions out of 3 questions. Each carries 10 marks.

- Q.1. Describe the different types of salt hydrolysis with examples and reactions.
- Q.2. What are complexometric titrations? Classify & explain different types of complexometric titration. Briefly write about masking and demasking agents.
- Q.3. Explain Mohr's method and Fajan's method of determination of halides.

#### Part C: Attempt any 7 questions out of 9 questions. Each carries 5 marks

- Q.4.Discuss the various types of currents in polarography.
- Q.5. Write a note on non aqueous solvents with examples and reactions involved.
- Q.6. Write a note on acid base indicator theory.
- Q.7. Define accuracy and precision. Concentrated HCl (MW = 36.5) has a density of 1.18 g/ml and 36% by wt of HCl. How many ml of Conc. HCl should be dilute to 1 lit.with H<sub>2</sub>O to prepare a 0.100 M.
- Q.8. Write a note on Iodimetry and Iodometry.
- Q.9. Explain in brief the acid base titration curves by Conductometry. .
- Q.10. Describe the principle, procedure and reaction involved in diazotization titrations.
- Q.11. Enlist the various steps in gravimetry. Write a note washing liquids used in gravimetry.
- Q.12. Explain Dropping mercury electrode with diagram.