Seat	
No.	

Set P

B.Pharm. (Semester – VIII) (CGPA) Examination, 2018 PHARMACEUTICAL ANALYSIS – VI

•	d Date : Monday, 1 2.30 p.m. to 5.30 p.			Total Marks : 70		
1. Mul	tiple choice questi	ons.		(15×1=15)		
1)	No of orientation f					
	A) 2I + 2	B) 2I + 1	C) 2I – 2	D) 2I – 1		
2)	The chemical shif	t value for carboxy	/lic proton is	_ Delta ppm.		
	A) 10 – 12	B) 4 – 6	C) 9.5 – 10	D) 7 – 9		
3)	Most intense peak	c in the mass spec	ctrum is called as _	Peak.		
	A) Isotope		B) Fragment			
	C) Base peak		D) Rearrangemen	nt		
4)	4) Bursting strength test is carried out for packaging material.					
	A) Metallic sheet		B) Glass			
	C) Rubber closure	e	D) Aluminium foil			
5)	5) are the reagents used for reducing test of packaging materia					
	A) KMnO ₄		B) H ₂ SO ₄			
	C) KI		D) All of these			
6)	Number of signals for 1-propanol is					
ŕ	A) 3	B) 2	C) 4	D) 5		
7)	McLafferty rearrangement is seen in the m/z ion having aldehydic, ester, carboxylic, ketone or amide functional group with suitably placedAbstractable hydrogen.					
	A) Alpha	B) Beta	C) Gamma	D) Delta		
8)ion source is used for studying high molecular weight biomolecular						
	samples.		5) 5 1			
	A) MALDI		B) Electro spray i	onization		
	C) FAB		D) El			

	9)	Which of the following is not the components of quality management system?				
		A) Quality assurance	B) Quality validation			
		C) Good manufacturing practice	D) All of these			
	10)	is the central value of all t to highest.	he observations arranged from I	lowest		
		A) Mode	B) Mean			
		C) Median	D) Standard deviation			
	11)	Time of flight mass analyzer, the separation of the ions takes place due to different of ions.				
		A) Magnetic dipole	B) Velocities			
		C) Nuclear spin	D) Potential			
	12)	Concurrent validation is carried out				
		A) During production	B) During product development	stage		
		C) After production	D) All of these			
	13)	is the lowest amount of an but not necessarily quantitated und A) Limit of detection C) Range				
	14)	What is the median of the data 7, 2, 4, 3, 2, 5, 10, 1, 12, 8 ?				
	,	A) 4 B) 5.5				
	15)	Standard Error of Mean (S.E.M.) of A) Dividing variance by sample mean B) Dividing S.D. by sample mean C) Dividing S.D. by square root of rD) Dividing mean by mode sample	an			
2.	Ans	swer any five of the following question	ons.	(5×5=25)		
	1)	Write a note on T-test.				
	2)	Draw a neat labeled diagram of NMR spectrometer. Give its principle.				
	-	Write on magnetic deflection mass analyzer used in mass spectrometry.				
	4)	Write on accuracy and precision method.	validation parameter of ana	lytical		

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- 5) Describe bursting strength and hydrolytic resistance test for packaging material.
- 6) Draw the structure of organic sample having molecular formula $C_4H_8O_2$ and is an ester with NMR signals at 4.1 δ as quartet, 2.1 δ as singlet and 1.2 δ as triplet.
- 3. Answer any three of the following questions.

 $(3 \times 10 = 30)$

- 1) Write on principle, sample inlet system and applications of mass spectrometry.
- 2) Write on process validation and quality assurance.
- 3) Explain with suitable examples factors affecting chemical shift.
- 4) Write on Electron Impact, Chemical ionization as an ion source in mass spectrometry.