Maharashtra Educational Society's

H. K. College of Pharmacy Adj. MHADA Building, Oshiwara, Jogeshwari (W), Mumbai-400102

	THIRD	, , , ,	HARMACEUTICAL A				
	Option a	Option b	Option c	Option d			
Q.1	What is the wavelength range for UV spectrum of light						
	400 nm – 700 nm	200-400nm	0.01 nm to 10 nm	200nm to 800 nm			
Q.2	The scattering of	waves in Bragg's la	w experiment is due to	· · · · ·			
×.	Einstein's	Rayleigh	Newton scattering	Inelastic scattering			
	scattering	scattering					
Q.3	X-rays are generated by						
	Geiger tube	Goniometer	Coolidge tube	Rotameter			
Q.4	Diffraction gratings work on the basis of						
<u> </u>	Max-Well	Bragg's equation	Noise-whitney	Beer's law			
	Boltzman's		equation				
	equation						
Q.5	During relaxation, the electron spin is reversed in						
	Fluorescence	Phosphorescence	IR	NMR			
Q.6	Fluorescence is a re	esult of transition of o	electron from				
	Singlet	Lower singlet	Triplet exited state	Triplet ground state			
	ground state	exited state	to singlet ground	to singlet exited			
	to singlet	to singlet	state	state			
	exited state	ground state.					
Q.7	Which of the follow	ing statement is not	correct	· · · · ·			
	Absorptivity	Absorbance is	Absorbance has no	Absorptivity is a			
	changes with	independent of	units	constant and			
	the intensity	intensity of the		depends on the			
	of the light	light		nature of the			
				molecule			
Q.8	Which of the following is a non-dispersive wavelength selector						
	Gratings	Prisms-glass	Filters	Prism-Quartz			
Q.9							
	Incident	Fluorescent	Absorbed radiation	Fluorescent			
	radiation to	radiation to	to fluorescent	radiation to			
	fluorescent	incident	radiation	absorbed radiation			
0 10	radiation radiation Which of the following material is used to coat the cathode in photo tube						
Q.10		_					
0.11	Copper Sodium Bromium Cesium 11 Collimator is a device used in monochromators to						
Q.11	Focus the	Eliminate	Eliminate reflection	Focus the incident			
	required	interferences	and scattering	radiation parallel			
	range of	from other	and scattering	on to the dispersing			
	wavelength	amines		device			
	of radiation	annies					
Q.12							
Q.12	Sample size for student t-test is:More thanLess than 30Between 50 andBetween 100 and						
		Less man 30					
	30		100	200			

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Q.13	The light which reaches the detector without passing through the cell is known as						
	Dark	Stray	Photoluminescence	Chemiluminescence			
	radiation	radiation					
Q.14	Which of the following is an example of anionic interference in atomic emission spectroscopy?						
	Interference	Interference	Increased viscosity	Decreased drop			
	of high	by formation	of the analyte	size of the analyte			
	concentration	of less	solution by sugars.	solution by alcohols			
	of sodium	volatile salt					
	ions in assay	with					
	calcium ions.	sulphates by					
		calcium.					
Q.15	The selectivity and sensitivity of fluorescence spectroscopy is higher than that of absorption						
	spectroscopy because of all of the following EXCEPT						
	Fluorescence	Rigid	Florescence	Every molecule that			
	substance	molecules	intensity depends	absorbs in UV			
	have	can only	on the intensity of	region can show			
	different	fluoresce	the incident	fluorescence			
	λmax of		radiation				
	excitation						
	and emission						
Q.16	Dynodes are present in						
	Barrier layer	Phototube	Photomultiplier	Diode array			
	detector		tube	-			
Q.17	Cut off wave length is the wavelength						
	Below which a	Above which	Below which an	Above which a			
	solvent absorbs	a solvent	analyte absorbs	analyte absorbs too			
	too much	absorbs too	too much radiation	much radiation			
	radiation	much					
		radiation					
Q.18	In fluorescence spectroscopy, emission spectra is obtained by keeping						
-	Excitation	Emission	Both excitation and	Both excitation and			
	wavelength	wavelength	emission	emission			
	constant	constant	wavelength	wavelength varying			
			constant				
Q.19	The purpose of secondary filter in fluorescence spectroscopy is						
	Allows only	Allows only	Allows both	Allows transmitted			
	excitation	emission	excitation and	radiation			
	radiation	radiation	emission radiations				
Q.20	Thermal analysis is defined as						
	, Measurement of	Measurement	Measurement of	Measurement of			
	concentration of	of solubility	physical properties	line positions of			
	materials as a	of materials	as a function of	crystals as a			
	function of	as a function	temperature	function of			
	temperature	of		temperature			
		temperature					
Q.21	Fluorescence quenching is						
X	Conversion of	Enhancement	Absence of	Repression of			
	fluorescence to	of	fluorescence	fluorescence			

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Q.22	Which of the following is true about radiochemical methods?					
	Eliminate the	Not sensitive	Not accurate	Not specific		
	need for chemical					
	preparation					
Q.23	Phosphorescence mainly results from					
	Internal	Vibrational	Intersystem	Crossover		
	conversion	relaxation	crossing			
Q.24	The compound C ₈ H ₈ O shows the following IR absorption data: 1450, 1265, 1360, 168					
	cm ⁻¹ . What will be this compound?					
	acetophenone	p-cresol	Benzyl alcohol	p-tolualdehyde		
Q.25	Which of the following source is continuous source for fluorometry					
	Deuterium	Xenon arc	Mercury vapor	Hollow cathode		
	discharge lamp	lamp	lamp	lamp		