1	Which methods are particularly useful for analyzing complex samples in which the					
	like	ikelihood of matrix effects is substantial?				
	a Calibration					
b Standard addition						
	c	Standard deduction				
	d	Normalization				
2	Who	en an external standard is used, it is assumed that the response received for an				
	anal	nalyte will be				
	a	Negative				
	b	Same				
	c	Positive				
	d	Different				
3		plication of the principle for the determination of specific analyte from specific				
	matrix is called					
	a	Procedure				
	b	Method				
	c	Technique				
	d	Protocol				
4	Mea	asure of how closely the result of an experiment agrees with the expected result is				
	calle	ed				
	a	Accuracy				
	b	Precision				
	c	Repeatability				
	d	Error				
5	Success or failure of an analysis is dependent on of method.					
	a	Execution				
	b	Selection				
	c	Accuracy				
	d	Availability				
	Ans	: Difficulty Level: S				
6	A systematic evaluation of system by internal or external team is known as					
	a	Quality Management				
	b	Quality Control				
	c	Quality Assurance				
	d	Quality Audit				
7		is method of assessing the reliability of toxicological studies for regulatory				
	purp	poses.				
	a	Spectroscopy				
	b	Klimisch Score				
	С	21 CFR				
	d	OSHA				
8	How many Na ⁺ ions are present in 5.43 gm of Na ₃ PO ₄ ? (Mol. Wt. of Na ₃ PO ₄ = 163.94)					
	Avogadro's No. = $6.022X10^{23}$					
	a	5.98				

	b	$b = 5.98 \times 10^{22}$				
	c	598X10 ²²				
	d	$0.0598X10^{22}$				
	Ans	:	Difficulty Level: M			
9	9 Find out the molar concentration of 67.5 ppm AgNO ₃ solution. (Mol. Wt. of AgNo					
	169	.87)				
	a	3.97X10 ⁻⁴				
	b	1.986X10 ⁻⁴				
	c	0.397				
	d	0.198				
	Ans		Difficulty Level: M			
10	500 millimoles of MgO are present ingm of the powder. (Mol. Wt. of MgO = 40.3)					
	a	2015				
	b	2.015				
	c	20.15				
	d	0.2015				
	Ans		Difficulty Level: M			
11		w many milligrams of salt are present in 3.5	6 liters of 685 ppm CuSO ₄ .5H ₂ O?			
	,	ol. Wt. = 249.68)				
	a	2397.5				
	b	2.3975				
	С	23.975				
	d	239.75	D:00 1 1 1 0			
10	Ans		Difficulty Level: S			
12		at is pH of 0.6 M HCl?				
	A	0.6				
	b	0.2218 -0.2218				
	c d	-0.2218				
			Difficulty Levels C			
13	Ans	e equilibrium constant for the dissolution of	Difficulty Level: S			
13	as	equilibrium constant for the dissolution of	a sond into an aqueous solution is caned			
	a	Equilibrium Constant				
	b	Dissolution Constant				
	c	Solubility Product				
	d	Dissociation Constant				
	Ans	;:	Difficulty Level: M			
14		nost of charge transfer complexes involving	•			
	as_	·	,			
	a	Electron donor				
	b	Electron acceptor				
	c	Electron absorber				
	d	Proton acceptor				

15	Hyd	drogen bonding shifts the UV absorption to			
	a Shorter wavelengths				
	b	longer wavelengths			
	С	higher intensities			
	d	lower intensities			
16	16 Triglycerine sulphate is used as a detector.				
	a	Thermal			
	b	Pyroelectric			
	С	Photovoltaic			
	d	Semiconductor			
17		is an important component in a Fourier transform system.			
	a	Photocell			
	b	beam splitter			
	c	IR source			
	d	Grating			
	Ans	: Difficulty Level:			
18	rst order derivative spectra passes through zero at thewavelength as				
	λma	ax of the absorbance band.			
	a	Same			
	b	Different			
	c	Longer			
	d	Shorter			
19	Optical fibers typically include a core surrounded by a transparent material with				
		er index of refraction.			
	a	Glassy			
	b	Cladding			
	С	Capping			
20	d	Crystalline			
20	OTA, a graph of vs. temperature is plotted.				
	a	Mass			
	b	ΔΤ			
	С	ΔΗ			
	d	ΔΜ			
21		is not used as a reference material in DTA.			
	a	Alumina			
	b	Carborundum			
	С	Magnesium oxide			
	d	Calcium carbonate			
		ich of these metallic materials is not used for fabrication of sample holder in DTA?			
	a	Nickel			
	b	Stainless steel			
	С	Iron			
	d	Platinum			

23	Applications of DTA compared to DSC are			
	a	Almost same		
	b	Completely different		
	c	More diverse		
	d	More specialized		
24	includes a peristaltic pump to propel the sample and reagents.			
	a	Power compensation DSC		
	b	FIA		
	c	DTG		
	d	Heat flux DSC		
25		systems enable you to precisely control reaction conditions, reducing the risk		
	of human error and giving you greater confidence in your results.			
	a	Power		
	b	Computer		
	c	Automated		
	d	Manual		