Questions for Mock test T.Y.B.Sc Sem V (ATKT) Analytical Chemistry

1.	In the titration of Fe (II) vs Ce (IV), the number of electrons involved is						
	a) One	b) Five	c) Eight	d) Three			
2.	An acidic medium is used for Fe (II) vs. KmnO4 titration because						
	a) H^+ Ions take part in reaction						
	b) pH needs to high						
	c) Titration needs acid as a solvent						
	d) None of these						
3.	Ferroin is the indicator for the titration of Fe (II) vs						
	a) Ce (III)	b) Ce (IV)	c) KMnO4	d) K2S2O8			
4.	An acid mixture is used in the titration of Fe (II) vs. $K_2Cr_2O_7$ when indicator used is . a) Diphenyl amine						
	b) Phenol red c) Methyl red						
	d) Starch						
5.	The end point in Fe (II) vs. kmnO ₄ titrant is . a) Pink to colourless						
	b) Colourless or pale green to pink c) Colorless to blue						
	d) Yellow to Red						
6.	EDTA formscomplexes with almost all metal ions.						
	a) 6:1	b) 1:3	c) 1:1	d) 2:5			
7.	EDTA titrations can EDTA. a) Rapidly	be used as a back titrations b) Exhaustively		as that react with d) badly			
8.	pH control of soluti EDTA as a titrant.	on containing several metal	cations is a method to i	mprove of			
a)	Reactivity	b) Poisoning nature c) Denticity	d) Selectivity			
9.	For Zn (II) – EDTA	titrations, is used	as indicator. a) Eriochi	rome black T			
b)	Ferroin						
c)	Starch						
d)	Phenol red						
10	. Murexide is comm	only used for titrating a solu	tion containing	ions with EDTA.			
a)	Ca (II)	b) La (III) c)	Ce (IV)) Fe(III)			

11.	Flame photometry is extensively used for estimation of . a) Alkali and alkaline earth metals							
	b) Transition metals c) Lanthanides							
	d) Rare earth metals							
12.	-	By knowing the wavelength of the emitted radiations, we can do . a) Qualitative estimation						
	b)	b) Quantitative estimation						
	c)	both (a) and (b)	and (b)					
	d)	none of these						
13.								
	a)	Solid	b) gas	c) aerosol	d) gel			
14.	14. In estimation of which of the element a moderate flame temperature are used?							
	e)	Fe and Ni	b) Li and Na	c) Mg and Cu	d) O and Cl			
15.	is independent of the flame temperature. a) Flame photometry							
	b) Atomic absorption spectrophotometry c) both (a) and (b)							
	d)	None of these						
		AAS, the fast moving called	ng ions hit the cathode s	surface and remove the su	rface metal atoms by a			
	a)		b) nebulization	c) desorption	d) atomization			
17.		or most molecules, the Triplet state	ne electrons are paired in b) quadrate state	the ground state. Such a c) singlet state	state is called the d) normal state			
18.		can be desc	ribed as the instantaneou	us re-emission of absorbe	d light.			
	a)	Phosphorescence	b) fluorescence	c) transmittance	d) refraction			
19.	. A	AS is used to detect	like Cu	, Ni Zn and Hg in food.				
	a)	Non-toxic metals	b) heavy metals	c) toxic metals	d) stellar particles			

20. Which of the following groups do not have any effect on both fluorescenece and phosphorescence?

a)

-OH and $-NH_2$ b) -N=N- and NO_2

c) $-SO_3H$ and $-NH_4^+$

d) None of these.

Answer key

Question no.	Answer
1	D
2	Α
3	С
4	Α
5	Α
6	Α
7	Α
8	С
9	Α
10	Α
11	D
12	Α
13	С
14	Α
15	С
16	В
17	Α
18	Α
19	Α
20	а