Dur	ation:	3 Hours Total Marks: 75
N.B.:		all questions are compulsory igures to right indicate full marks
Q. I (Choose	e appropriate option for the following multiple choice-based questions.
1	How n	nuch impurities are tolerated in primary standard sometimes?
	a.	1 % to 2 %
	b.	0.1 % to 0.2 %
	c.	0.01 % to 0.05 %
	d.	0.01 % to 0.02 %
2	Measu	rement which is close to true value is
	a.	Accuracy A A A A A A A A A A A A A A A A A A A
	b.	Average
	c.	Precise
	d.	Error
3	Reage	nt error can be minimized by
	a.	Running blank determinations
*	b.	Using Calibrated instruments
	c.	Running parallel determinations
	d.	Replacing the sample
4	The tit	trant used in iodometric analysis is
	a.	Potassium permanganate
	b.	Sodium thiosulphate
	c.	Potassium iodate
	d.	Iodine
5	Acco	rding to Arrhenius theory, base is a compound that is capable of producingwhen dissolved in water
	a.	Hydrogen ion
N. A.	b.	Amphiprotic Substances
	C!	Conjugate acid
	d.	Hydroxyl ion
6	Condu	activity is defined as the ability to carry
	a.	Voltage
(P)	b.	Resistance
	c.	Current
	d.	Voltage and Current

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7	Reacti	on between a weak acid and a weak base give
	a.	Neutral salt
	b.	Basic salt
	c.	Acidic salt
	d.	Amphiprotic Substances
8	Reacti	ons involving electron transfer are called
	a.	Precipitation reactions
	b.	Acid-base reactions
	c.	Complexometric reactions
	d.	Redox reactions
9	Unpre	dictable fluctuation in the readings of a measurement apparatus or in the
	experi	menter's interpretation of the instrumental reading is the example of
		error.
	a.	Instrumental errors
	b.	Random errors
	c.	Personal errors
	d.	Systematic errors
10	pH ra	nge for the Phenolphthalein for colour change at the end
	point i	s
	a.	3.8-5,2
	b.	4.2-6.4
	c.	6.6-8.2
	d.	8.2-10
11	Ksp =	[Na ⁺] [Cl ⁻] indicates the
	a.	Saturated solution
	b.	Precipitation occurs
	c,	No precipitation
	d.	No Change
12	Whic	h method is oldest titration method in precipitation titration?
	a.	Volhard's method
	b,	Mohr's Method
	C.	Fajan's Method
	d.	Modified Volhard's method
13	The au	xillary electrode in polarography is
Y	a.	Dropping mercury
	b.	Graphite electrode
	c.	Mercury pool
	d.	Rotating platinum electrode

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14	How n	nany lone pair of electrons are there in EDTA?
	a.	Two
	b.	Four
	c.	Six Six
	d.	Eight
15	Given	examples are Aprotic solvents EXCEPT.
	a.	Benzene
	b.	Hexane A S S S S S S S S S S S S S S S S S S
	c.	Toluene
	d.	Ketones
16	When	crystals are close together during crystal growth is called as
	a.	Surface adsorption
	b.	Occlusion
	c.	Mixed crystal formation
	d.	Mechanical entrapment
17	Which	of the following exhibit different color in oxidized and reduced forms?
	a.	Ferroin
Q.	b .	Phenolphthalein
	c.	Starch
	d.	Methyl red
18	Ksp <	[Na+] [Cl-] indicates
	a.	Saturated solution
	b.	No precipitation
	c.	Precipitation occurs
	d.	Supersaturated solution
19		w/v Methyl Red solution in dioxin shows Colour change:
		Yellow to Red
	b.	Yellow to blue
) c.	Yellow to green
		Purple red to pale green
20	The r	number of moles of solute dissolved per 1000 g (1kg) of solvent is known as
	N. a.	NASSALLA STATE OF STA
	a.	Molarity
30	b.	Formality
	C.	Molality
	d.	Normality

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Q. I	II Answer any two questions. (Any 2)	>20
1	Explain neutralization curve for weak acid and strong base. Write a brief note on non-aqueous titrations.	10
2	Explain the following terms: (i) Primary Standard (ii) Secondary Standard	10
	(iii) Precision (iv) Pharmacopoeia (v) Significant figures.	
3	What is redox titration. Enlist types of redox titration and explain any two in detail.	10
Q. I	III Answer any seven questions (Any Seven)	35
1	Explain in detail Mohr's method.	5
2	Write a short note on (i) Masking and Demasking reagents (ii) pM indicators.	5
3	Explain the Fajan's method used for determination of end point in precipitation titration.	5
4	Write a note on Cerimetry.	5
5	Enlist the types of conductometric titration. Give its advantages, Disadvantages and applications	5
6	Define Reference electrode. Enlist types of it and write a note on Saturated Calomel electrode (SCE).	5
7	Write a construction and working of dropping mercury electrode (DME) with neat labelled diagram.	5
8	Classify errors and give the methods for error minimization.	5
9	What volume of 0.1 M HCl solution would be required to neutralize 50 ml of 0.1M NaOH? Calculate pH at the start of titration and after adding 10 ml, 50 ml and 60 ml of titrant.	5