1.	Which A) B) C) D)	It is diamagnetic It is an orange solid								
2.	The s	The spinels CoFe ₂ O ₄ and FeFe ₂ O ₄ , respectively, are								
	A)	Inverse and inverse	B)	Inverse and normal						
	C)	Normal and normal	D)							
3.		rding to Wade's rule, the ctively are	struct	ures of $C_2B_{10}H_{12}$ and $[C_2B_9H_{11}]^2$,						
	A)	Closo and arachno	B)	Nido and closo						
	C)	Closo and nido	D)	Nido and arachno						
4.	The o	The overall charge present on the cyclic silicate anion $[Si_6O_{18}]^{n-}$ is								
	A)	6	B)	12						
	C)	18	D)	24						
5.	The reagent required for the synthesis of cyclic phosphazene N ₄ P ₄ Cl ₈ are									
	A)	PCl ₅ and NH ₃	B)	POCl ₃ and NH ₄ Cl						
	C)	POCl ₃ and NH ₃	D)	PCl ₅ and NH ₄ Cl						
6.	Metal which does not react with aqueous solution of copper sulphate is									
	A)	Pb	B)	Ag						
	C)	Zn	D)	Fe						
7.	Which of the following is the salt of an organic acid?									
	A)	Rochelle salt	B)	Microcosmic salt						
	C)	Mohr's salt	D)	Zeise's salt						
8.	Which of the following oxoacids of phosphorous is monobasic and reducing in nature?									
	A)	Metaphosphoric acid	B)	Pyrophosphoric acid						
	Ć)	Hypophosphoric acid	D)	Hypophosphorous acid						
9.	The c	complex exhibiting a spin-only	magnet	ic moment (μ_s) of 2.87 B. M is						
	A)	$[Co(H_2O)_3F_3]$	B)	$K_4[Fe(OH)_6]$						
	C)	$Na_2[Cr(NCS)_4(NH_3)_2]$	D)	$K_2[MnCl_4(H_2O)_2]$						
10.	The c	correct order of ligand field stre	ngth is							
	A)	H ₂ O <cl<co<nh<sub>3</cl<co<nh<sub>	B)	CO <nh<sub>3<cl<h<sub>2O</cl<h<sub></nh<sub>						
	C)	H ₂ O <co<nh<sub>3<cl< td=""><td>D)</td><td>Cl<h<sub>2O<nh<sub>3<co< td=""></co<></nh<sub></h<sub></td></cl<></co<nh<sub>	D)	Cl <h<sub>2O<nh<sub>3<co< td=""></co<></nh<sub></h<sub>						

11. The electronic configuration of the element X is [Ar] $4S^2d^{10}$. Which one of the following is the most suitable formula for its oxide?				
	A)	X_2O	B)	X_2O_3
	C)	XO	D)	X_2O_5
12.	togeth	er. The normality of the result	ant solu	
	A)	0.5	B)	1.0
	C)	0.1	D)	0.25
13.		of the following set of lantha		
	A)	Eu and Sm	B)	Pr and Eu
	C)	La and Ce	D)	La and Eu
14.	Atomi	<u> </u>	number	, N and hence different Z and A values
	A)	Isobars	B)	Isotones
	C)	Isotopes	D)	Isomers
15.	Which	one of the following pairs of	species	
	A)	CN ⁻ and NO ⁺	B)	CN ⁻ and CN ⁺
	C)	O and CN	D)	NO ⁺ and CN ⁺
16.		-/r- ratio of KF is 0.98. therefo		• •
	A)	NaCl	B)	ZnS
	C)	CsCl	D)	Diamond
17.		olubility of Ag ₂ CrO ₄ is 1×10^{-4}		
	A)	4×10 ⁻¹²	B)	1×10^{-8}
	C)	2×10^{-12}	D)	1×10 ⁻²
18.	In wh		ystal s	ystem an all face centered lattice is
	A)	Tetragonal	B)	Monoclinic
	C)	Triclinic	D)	Orthorhombic
19.	Which	one of the following statemen	nts is tru	ue in respect of nuclear forces?
	A)	Short range and weak	B)	Long range and weak
	C)	Short range and strong	D)	Long range and strong
20.	What	is the energy of the photon hav	ing a w	vavelength 3.313 A°?
•	A)	$3\times10^{-16} \mathrm{J}$	B)	$13.254 \times 10^{-16} \text{J}$
	C)	$6 \times 10^{-16} \text{J}$	D)	$13.254 \times 10^{-18} \text{J}$ $13.254 \times 10^{-18} \text{J}$
	C_j	0 × 10 J	D)	13.23T \ 10 J

21.	Which among the following are the remaining products of the reaction? $K_2Cr_2O_7 + 7H_2SO_4 + 6 FeSO_4 \longrightarrow K_2SO_4 + Cr_2 (SO_4)_3 + ?$
	A) 2KHSO ₄ + 2Fe ₂ (SO ₄) ₃ +6H ₂ O B) 2Fe ₂ (SO ₄) ₃ +8H ₂ O C) 3Fe ₂ (SO ₄) ₃ +7H ₂ O D) 3Fe ₂ (SO ₄) ₃ +6H ₂ O
22.	 Which of the following statement is true? A) H₃PO₄ is a stronger acid than H₂SO₄ B) In aqueous medium HF is a Stronger acid than HCl C) HClO₄ is weaker acid than HClO₃ D) HNO₃ is a stronger acid than HNO₂
23.	The hybridisation and shape of XeF ₄ are respectively A) sp ³ d ² and octahedral B) sp ³ d ² and square planar C) sp ³ and tetrahedral D) dsp ² and square planar
24.	 Which of the following statement is not correct? A) A combination of gold with colloidal stannic acid is called "purple of cassius" B) A mixture of Ca(OH)₂ and Cu(SO₄) is known as Bordeax mixture C) Copper glance can be concentrated by froth floation method D) The matte is a mixtrure of Cu₂S and FeO
25.	Which of the following are ionisation isomers? A) [Pt(NH ₃) ₄][CuCl ₄] and [Cu(NH ₃) ₄][PtCl ₄] B) [Co(NH ₃) ₄ Cl ₂]NO ₂ and [Co(NH ₃) ₄ NO ₂ Cl]Cl C) [Co(NH ₃) ₅ NO ₂]Cl ₂ and [Co(NH ₃) ₅ ONO]Cl ₂ D) [Cr(H ₂ O) ₆]Cl ₃ and [Cr(H ₂ O) ₅ Cl]Cl ₂ .H ₂ O
26.	Which of the following crystals exhibit metal deficiency defect? A) NaCl and FeS B) FeO and NaCl C) FeS and AgBr D) FeO and FeS
27.	The number of α and β – particles emitted when $_{92}U^{238}$ changes to $_{88}Ra^{226}$ is respectively A) 3 α , 4 β B) 2 α , 3 β C) 3 α , 2 β D) 3 α , 1 β
28.	 Which of the following isotope is wrongly matched with its use? A) Carbon-11 – Brain scan B) Mercury-197 – Kidney scan C) Gold-198 – Diagnosis of anaemia D) Cobalt-60 – Treatment of cancer

29.	Which of the following reactions involves neither oxidation nor reduction? A) $CrO_4^{2-} \longrightarrow Cr_2O_7^{2-}$ B) $Cr \longrightarrow CrCl_3$ C) $2 S_2O_3^{2-} \longrightarrow S_4O_6^{2-}$ D) $VO^{2-} \longrightarrow V_2O_2$
30.	Supramolecular chemistry is the chemistry A) Beyond the molecule B) Of ionic bonds C) Of covalent bonds D) Of coordinate-covalent bonds
31.	The ground spectroscopic state for the free $3d^2$ ion is A) 3F B) 4A_2g C) 4F D) 3T_1g
32.	Intercalation of the metal complex with DNA leads to A) Hypochromism with red shift B) Hyperchromism with red shift C) Hyperchromism with blue shift D) Hypochromism with blue shift
33.	The Miller indices of a plane which cuts the crystallographic axes at a/2,b,c/3 are A) (213) B) (312) C) (263) D) (362)
34.	 Which of the following statements are true? i) The negative ligands satisfy both primary and secondary valencies ii) The oxidation state of the central metal ion corresponds to non-ionisable valency iii) Non-ionisable valencies are directional in nature iv) The metal ion of the double salts is not free in solution. A) (i) and (ii)only B) (ii) and (iii)only
35.	C) (i), (iii) and (iv)only D) (i) and (iii)only Which of the following is not correct?
	A) $Zn^{2+} + K_4[Fe(CN)_6]$ \longrightarrow White precipitate B) $Fe^{2+} + K_4[Fe(CN)_6]$ \longrightarrow Blue Colouration C) $Fe^{3+} + K_4[Fe(CN)_6]$ \longrightarrow Blue Colouration D) $Cu^{2+} + K_4[Fe(CN)_6]$ \longrightarrow Chocolate brown precipitate
36.	 Which of the following statement is true? A) Crystal can have five-fold axis of symmetry B) A molecule cannot have five-fold axis of symmetry C) A molecule can have five-fold axis of symmetry, but a crystal cannot have D) Both a molecule and crystal can have five-fold axis of symmetry

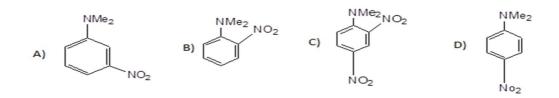
37.	The pH	H of a 10 ⁻⁸ molar HCl is							
	A)	8	B)	7					
	C)	More than 7	D)	Just less than 7					
38.	Which one of the complex will exhibit lowest energy electronic absorption band?								
	A)	$[NiCl_4]^{2-}$	B)	$[Ni(H_2O)_6]^{2+}$					
	C)	$[Ni(CN)_4]^{2-}$	D)	[Ni(CO) ₄]					
39.	Bronze	e is an alloy of							
	A)	Cu and Sn	B)	Cu, Zn and Ni					
	C)	Cu, Zn and Sn	D)	Cu and Zn					
40.	The co	omplex with maximum CFSE i	is						
	A)	$[\text{CoCl}_4]^{2}$	B)	$[Co(H_2O)_6]^{3+}$					
	C)	$[CoF_3(H_2O)_3]$	D)	$[CoF_6]^{3-}$					
41.	Which	of the following pentafluoride	e does n	not exist?					
	A)	PF ₅	B)	AsF_5					
	C)	SbF ₅	D)	BiF ₅					
42.	Which	of the following is the weaker	st base a						
	A)	ClO ⁴	B)	ClO ³⁻					
	C)	ClO ²⁻	D)	ClO					
43.	Which	of the following is an exampl	e of zin	c ore?					
	A)	Magnetite	B)	Malachite					
	C)	Cryolite	D)	Willemite					
44.	Which of the following errors cannot be avoided?								
	A)	Instrumental errors	B)	Personal errors					
	C)	Additive errors	D)	Indeterminate errors					
45.	Which technique does not assist in Greener synthesis of chemicals?								
	A)								
	B)	Derivatization methods							
	C)	Ultrasound assisted reactions							
	D)	Use of catalytic reagents							
46.			is use	ed for the construction of electron					
	micros	•							
	A)	Electron diffraction							
	B)	Dual nature of matter							
	C)	Photoelectric effect							
	D)	Black body radiation							

47.	Nylon 64 is made respectively from									
	A)	Adipic acid and tetramethylene diamine								
	B)	Hexamethylene diamine and succinic acid								
	C)	Tetramethylene diamine and	adipic a	acid						
	D)	Succinic acid and hexamethy	lene dia	amine						
48.	Hess's law of constant heat summation is an application of									
	A)	Kirchoff's law								
	B)	First law of thermodynamics								
	C)	Second law of thermodynamic	ics							
	D)	Entropy								
49.		nal decomposition of HI on gol		<u> </u>						
	A)	First order	B)	Second order						
	C)	Third order	D)	Zero order						
50.	Which among the following molecules is microwave active?									
	A)	CO_2	B)	N_2						
	C)	BCl ₃	D)	NH_3						
51.	Which among the following has the highest energy level spacing?									
	A)	Translation	B)	Rotation						
	C)	Vibration	D)	Electronic						
52.	Viscosity of a polymer solution increases when									
	A)	The polymer goes from linear to coil form								
	B)	The polymer goes from coil t	o linear	form						
	C)	The polymer goes from ionic to non-ionic								
	D)	None of the above								
53.	To wh	nich point groups do the mole	ecules o	ethylene and trans-ethylene dichloride						
	belong?									
	A)	C ₂ h and D ₂ h	B)	C_2v and C_2h						
	C)	D ₂ h and C ₂ h	D)	D_4h and D_2h						
54.	The specific conductance of a solution									
	A)	1								
	B)									
	C)	Decreases with increase of concentration								
	D)	Undergoes no change with ch	nange in	n concentration						
55.	The m	eta-stable peak is generally								
	A)	Low intense and sharp	B)	Highly intense and broad						
	C)	Low intense and broad	D)	Highly intense and sharp						
				•						

56.	An off resonance decoupled ¹³ C NMR spectrum of acetone will show								
	A)	A triplet and	a single	et	B)	A qua	rtet and a singl	et	
	C)	Two quartets	and a s	inglet	D)	Two s	inglets		
57.	A gas	deviates most	from id	eal beha	aviour a	t			
	A)	Low temperat	ture and	d high p	ressure				
	B)	Low temperat	ture and	d low pr	essure				
	C)	High tempera	ture an	d high p	ressure				
	D)	High tempera	ture an	d low p	ressure				
58.		e given tempera square velocity		vhich of	f the fo	llowing	molecule will	have	the largest
	A)	HCl	B)	H_2S		C)	SO_2	D)	N_2O_5
5 0	T		•		2.01	15 102	3		1.1
59.		mount of coppe a solution is	er depos	sited wh	en 3.01	15 x10	electrons hav	e pass	sed through
	A)	63.5 g	B)	31.75	g	C)	15.85 g	D)	3.17 g
60.	In uni	ts of $h^2/8ml^2$, the	he ener	av diffe	rence h	etween	levels correspo	ndina	to 3 and 2
00.		eigen functions							
	is		101 w p		71 111000				01 14118411 1
	A)	1	B)	3		C)	5	D)	7
61.	The C	onsager equation	n helne	us to fi	nd out				
01.	A)	Dissociation of	_			etrolyte			
	B)	λ_0 for a weak			cak cicc	liolyte			
	C)	λ_0 for a stron		•					
	D)	λ_0 for a strong Transport nur	_	•					
	D)	Transport nur	noer or	an ion					
62.	An au	xochrome is a	group v	vhich					
	A)	Absorbs in U	V regio	n					
	B)	Absorbs in V	isible re	egion					
	C)	Absorbs in IR	R region	ı					
	D)	Increases abso	orption	wavele	ngth of	chromo	phores		
63.	The m	nolar heat capac	citv at c	onstant	volume	is			
	A)	$(\partial H/\partial T)_V$	B)	(∂G/∂		C)	$(\partial E/\partial T)_V$	D)	$(\partial A/\partial T)_V$
	,	,	,	·		,		ŕ	
64.		olume occupie	d by e	ight gra	ms of o	oxygen	at 546° K and	380	mm of Hg
		litres	D)	44.0		C '	22.4	ъ,	2.24
	A)	11.2	B)	44.8		C)	22.4	D)	2.24
65.	Hollo	w cathode lamp	is used	d to obta	ain				
	A)	Resonance lin			B)	Multi	ole wavelength	S	
	C)	Radio wave			D)	-	e radiation		

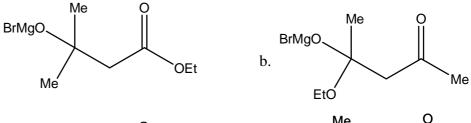
00.	A)	CO	B)	H ₂	cai ent	C)	CO_2	D)	N_2O	
67.	The sp A) C)	pacing between Electric field Frequency	-	n-spin sp	olitting B) D)	Magn	R spectrum etic field er of proto	-	dent on t	the
68.	In hor A) B) C) D)	B) Order and molecularity need not be the same C) Order is higher than the molecularity of a reaction								
69.	Limiti A) C)	ng current in p Residual curr Kinetic curre	ent	iphy dep	ends o B) D)	Diffus	sion curren e above	t		
70.	The mA)	omentum of a 1.1 x 10 ⁻²⁵ K 2.1 x 10 ⁻²¹ K	photon of g m s ⁻¹ (g m s ⁻¹	of frequ	ency 5 B) D)	x 10 ²⁰ s 1.1 x 2.1 x	s ⁻¹ is nearly 10 ⁻²¹ Kg m 10 ⁻²² Kg m	s ⁻¹ s ⁻¹		
71.		olloidal syster quids is know A gel An emulsion	n as	ich the	dispers B) D)	sed pha An ae A foar	rosol	spersion 1	nedium	are
72.	Amon A) B) C) D)	gst the followi Momentum & Potential ener Linear mome Time & energ	& energy rgy & po entum &	osition		ariable i	is			
73.	Bragg A)	's equation has $n\lambda = 2d$	s no solu B)	tion who		C)	$n\lambda > 2d$	D)	$n\lambda = 0$	d/2
74.	Which	one of the following the CH ₃		reagents	is corr	ect for	the reaction	CH ₃		
A.	B) C) D)	LiAlH ₄ in H ₂ H ₂ SO ₄ in CH C ₆ H ₅ CO ₃ H in	₃ CN							

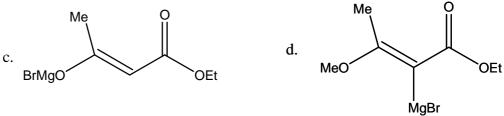
75. The major product formed on nitration of N,N-dimethylamine with conc. $H_2SO_4 - HNO_3$ mixture is



76. Reaction of phenylacetylene with sodamide in liquid ammonia generates

77. Reaction of ethyl acetoacetate with one equivalent of methylmagnesium bromide gives



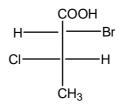


78. Citral, when heated with KHSO₄ forms

a.

- A) Isoprene B) P-Cymene C) P-Menthane D) Dipentene
- 79. α Pinene hydrochloride on warming rearranges to form bornyl chloride. This rearrangement is known as
 - A) Pinacol Pinacolone B) Hofmann
 - C) Wagner Meerwein D) Wolff
- 80. Which of the following shows Diels Alder reaction?
 - A) Pyridine B) Pyrrole C) Thiophene D) Furan

- 81. Acetyl value of an oil or Fat indicates
 - A) Amount of free acids
 - B) Degree of unsaturation
 - C) Amount of free alcoholic groups
 - D) Amount of free base
- 82. Which one of the following products is obtained from the reaction of catechol with chloroform and NaOH followed by hydrolysis?
 - A) 2,3-dihydroxy benzaldehyde
 - B) 3,4- dihydroxy benzylchloride
 - C) 2,3- dihydroxy benzylchloride
 - D) 3,4- dihydroxy benzaldehyde
- 83. Rapid interconversion of α D glucose and β D glucose in solution is known as
 - A) Mutarotation
- B) Racemisation
- C) Asymmetric induction
- D) Fluxional isomerisation
- 84. The correct R S notation of the structure given below is



A) 2S, 3R

B) 2R, 3S

C) 2S, 3S

- D) 2R, 3R
- 85. A thermal pericyclic reaction involving a Mobius system is allowed only if the total number of electron is
 - A) 4n

B) 4n+2

C) 2n

- D) 0
- 86. The incorrect term regarding molecules which are mirror images is
 - A) Enantiomorphs
- B) Enantiomers

C) Achiral

- D) Antimers
- 87. The deficiency of which vitamin leads to beri-beri disease
 - A) Thiamine

B) Riboflavin

C) Pyridoxine

- D) Ascorbic acid
- 88. All steroids on heating with selenium give
 - A) Phenanthrene
- B) Cholesterol
- C) Diels hydrocarbon
- D) Isoprene

- 89. Which of the following reaction is generally employed to establish the structure of any alkaloid?
 - A) Cannizzaro reaction
 - B) Hofmann degradation
 - C) Hofmann rearrangement reaction
 - D) Kosnowski colour reaction
- 90. The reaction of toluene with Cl₂ in presence of FeCl₃ gives predominantly
 - A) Benzoyl chloride
- B) Benzyl chloride
- C) o-and p- chlorotoluenes
- D) m-chlorotoluene
- 91. Ethylacetoacetate is prepared from ethyl acetate by the
 - A) Benzoin condensation
- B) Aldol condensation
- C) Claisen condensation
- D) Dieckmann condensation
- 92. Which of the following reactants on reaction with Conc.NaOH followed by acidification gives the following lactone as the only product?

- 93. Which one of the following is an example for monocyclic monoterpenoid?
 - A) Camphor

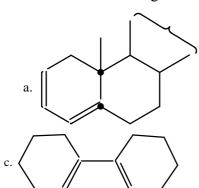
B) Carvone

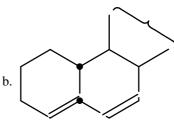
C) Geraniol

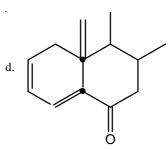
- D) Citral
- 94. Which of the following statements is true about a peptide bond (RCONHR')?
 - A) It is non planar
 - B) It is capable of forming a hydrogen bond
 - C) The cis configuration is favoured over the trans configuration
 - D) Single bond rotation is permitted between nitrogen and the carbonyl group
- 95. Which of the following is a Fenton's reagent?
 - A) Br₂/CH₃COOH
- B) AgOH/NH₄OH
- C) $H_2O_2/Fe(OCOCH_3)_3$
- D) $Ac_2O/SOCl_2$

96.	CH ₃ C	e following sequence H_2OH ound 'D' is $P + I_2$			В	<u>НСНО</u> ▶	C _	H ₂ O →	D.	The
	A) n-butanal			B)	n-ł	outanol				
	C)	n-propanol		D)		opanal				
97.	Addit A)	ion of HCN to a ket Electrophilic addi		_	for					
	B)	Electrophilic subs								
	C)	Nucleophilic addi								
	Ď)	Nucleophilic subs								
98.	Water	soluble vitamin is								
	A)	Vitamin A		B)		tamin C				
	C)	Vitamin D		D)	Vi	tamin K				
99.	For reducing –CHO to –CH ₂ OH, the preferred reagent is									
		A) NaBH ₄				AlH ₄				
	C)	N_2H_4		D)	Zn	Hg/HCl				
100.	•	netic equivalent for	Ph is			_				
	A)	PhMgBr		B)	Ph					
	C)	PhCOOH		D)	Ph	COCl				
101.		n one of the followi	ng is not pr							
	A)	Uracil		B)		bose				
	C)	Phosphate		D)	1 n	iamine				
102.	-	olysis of fat gives		D)	C1	1				
	A)	Oils Clysogol		B)		ycol				
	C)	Glycerol		D)	Ox	alic acid				
103.		hopal gas tragedy v			3.6	.1 1	1			
	A)	Methyl avaneta	e	B) D)		ethyl cyanic				
	C)	Methyl cyanate		D)	IVI	ethyl isocya	mate			
104.	Which	n of the following is	s non-arom	atic?	_					
	a	b.		c.			d. (/ 	<u>-</u>	,
			H			C_H	· ·	ll	川	
		Н						H	\ _L	
									1.1	

105. Which of the following has λ_{max} value equal to 273 mµ?







- 106. Which property is measured in derivative thermo-gravimetric analysis?
 - A) Change in weight
- B) Rate of change of weight
- C) Heat evolved or absorbed
- D) Change of temperature
- 107. Which of the following is not true regarding fundamental requirements for nitrogen fixation?
 - A) Enzyme nitrogenise
- B) Aerobic conditions
- C) A strong reductant
- D) Adenosine triphosphate
- 108. Which of the following iron complex is involved in electron transfer in plants and bacteria?
 - A) Myoglobin

B) Ferridoxins

C) Ferritin

- D) Transferin
- 109. Which of the following allotropes of carbon is normally referred as zero dimensional?
 - A) Diamond

B) Carbon nanotube

C) Graphite

- D) fullerene
- 110. Which of the following tranquilizers is not a derivative of barbituric acid?
 - A) Equanil

B) Veronal

C) Seconal

- D) Luminal
- 111. Valinomycin is an ionophore that specially binds with
 - A) Na⁺ ion

- B) K^+ ion
- C) Na^+ and K^+ ion
- D) Any alkali metal ion
- 112. Which of the following is not a green house gas?
 - A) O_3
- B) CH₄
- C) N_2
- D) CO_2
- 113. The most common mobile phase used in gas liquid chromatography is
 - A) Nitrogen
- B) Helium
- C) Neon
- D) Oxygen

114.	Microcananical ensemble is an ensemble of systems in which each member has the same values of							
	A)	N, T and E	B)	N,V and T				
	C)	N, V and E	D)	V, T and μ				
115.	Magn A) B) C) D)	onetic properties are not observed in nuclei with Odd mass number and odd atomic number Even mass number and odd atomic number Odd mass number and even atomic number Even mass number and even atomic number						
116.	Visco A)	sity has the dimension of dyne cm ² sec ⁻¹	B)	dyne cm ⁻² sec				
	C)	dyne cm ² sec	D)	dyne cm sec ⁻¹				
117.	The equation which forms the basis of photoelectric effect is							
	A)	$hv = 1/2mv^2 - w$	B)	$1/2mv^2 = hv - w$				
	C)	$W = hv + mv^2$	D)	$1/2 \text{ mv}^2 = \text{hv} + \text{w}$				
118.	Which of the following is an adsorption indicator?							
	A)	Phenol red	B)	Eriochrome Black –T				
	C)	Eosin	D)	Ferroin				
119.	Which of the following methods is accurate and precise as compared to volumetric methods?							
	A)	Coulometry	B)	Cyclic voltammetry				
	Ć)	Amperometry	Ď)	None of these				
120.		suitable reagent for the gra homogeneous solution is H ₂ SO ₄ (CH ₃) ₂ SO ₄	vimetric	estimation of barium by precipitation				

C) Na_2SO_4
