

53.	The oxidation number	er of nitrogen in NaNO ₂ is:	65.	Magnalium contains:								
	(a) $+3$	(b) +5		(a) $Mg + Al$ (b) $Mg + Cu$								
	(c) -3	(d) -5		(c) $Mg + Fe$ (d) $Mg + Mn$								
54.	Bauxite is an ore of :		66.	The de-Broglie wavelenght of a particle with								
	(a) Al	(b) Ca		mass 1 kg and velocity 100 m/s is:								
	(c) Cu	(d) Ni		(a) 6.6×10^{-33} m (b) 6.6×10^{-36} m								
55.	The best source of vi	tamin A is:		(c) $3.3 \times 10^{+33}$ m (d) 3.3×10^{-36} m								
	(a) beans	(b) pulses	67.	The volume of a gas measured at 27°C and 1								
	(c) orange	(d) carrot		atm pressure is 10 L. To reduce the volume to 2 L at 1 atm. pressure, the temperature								
56.	Plaster of paris is:			required is :								
	(a) $CaSO_4 \cdot \frac{1}{2} H_2O$	(b) $CaSO_4 \cdot 2H_2O$		(a) 60 K (b) 75 K (c) 150 K (d) 225 K								
	(c) CaSO ₄ · H ₂ O	(d) CaSO ₄ · 4H ₂ O	60	Isotonic solutions have :								
57.	Penicillin is :	•	00.	(a) same vapour pressure								
	(a) analgesic	(b) antipyretic		(b) same osmotic pressure								
	(c) antimalarials	(d) antibiotic		(c) same boiling point								
58.	The most stable com	pound is :		(d) same temperature								
	(a) LiF	(b) LiCl	69.	Epsom salt is:								
	(c) LiBr	(d) LiI		(a) BaSO ₄ ·2H ₂ O (b) CaSO ₄ ·H ₂ O								
59.	Heavy water is:			(c) $MgSO_4 \cdot 2H_2O$ (d) $MgSO_4 \cdot 7H_2O$								
	(a) CaSO ₄		70.	Paracetamol is an:								
	(b) water contain Ca	aSO ₄ , MgSO ₄		(a) analgesic								
	(c) D ₂ O			(b) antipyretic								
	(d) water contain C	aCO ₃		(c) both (a) and (b) (d) none of the above								
60.		with hot and conc. H ₂ SO ₄ ,	71	The number of moles of oxygen obtained by the electrolytic decomposition of 108 g water is :								
	gives:		, 1.									
	(a) H ₂	(b) N ₂		(a) 2.5 (b) 3								
	(c) O ₂	(d) SO ₂		(c) 5 (d) 7.5								
61.	BaO2 and ozone read		72.	The change in entropy for the fusion of 1 mole								
	(a) Ba	(b) Ba ₂ O ₃		of ice is [mp of ice = 273 K, molar enthalpy of								
	(c) BaO	(d) Ba(OH) ₃		fusion for ice = 6.0 kJ mol^{-1}]								
62.		inty principle can be		(a) 11.73 JK ⁻¹ mol ⁻¹								
	explained as:	L		(b) 18.84 JK ⁻¹ mol ⁻¹ (c) 21.97 JK ⁻¹ mol ⁻¹								
	(a) $\Delta x \ge \frac{\Delta P \times h}{4\pi}$	(b) $\Delta x \times \Delta P \ge \frac{n}{4\pi}$		(d) 24.47 JK ⁻¹ mol ⁻¹								
	(c) $\Delta x \times \Delta P \ge \frac{h}{\pi}$	(d) $\Delta B > \pi h$	72									
	(c) $\Delta x \times \Delta P \ge \frac{\pi}{\pi}$	(d) $\Delta P \ge \frac{1}{\Delta x}$	/3.	Which does not give a precipitate with AgNO ₃ solution?								
63.	A gas mixture contain	as O ₂ and N ₂ in the ratio of		(a) [Co(NH ₃) ₆]Cl ₃ (b) [Co(NH ₃) ₅ Cl]Cl ₂								
	The state of the s	e ratio of their number of		(c) $[Co(NH_3)_4Cl_2]Cl$ (d) $[Co(NH_3)_3Cl_3]$								
	molecules is:		74	Total volume of atoms present in a face centred								
	(a) 1:8	(b) 1:4	, 4.	cubic unit cell of a metal is : (r is atomic radius)								
	(c) 3:16	(d) 7:32										
64.		obtained by treating Cl ₂		3								
	with:	(h) CaO		(c) $\frac{24}{3} \pi r^3$ (d) $\frac{12}{3} \pi r^3$								
	(a) Ca(OH) ₂	(b) CaO		3								
	(c) CaCO ₃	(d) CaCl ₂										
	TDAG DIGIC											

75.	Pure silicon doped w		86.	IUPAC name of the following compound:							
	(a) metallic conducte(b) insulator(c) n-type semiconducte(d) p-type semiconducte	uctor		>-c-	NCH ₃						
76.	Neutron is discovered				clopropanecarboxamide						
	(a) Chadwick (c) Yukawa	(b) Rutherford (d) Dalton		(b) N-methylcyclopropanamide(c) cyclopropionamide(d) none of the above							
77.	What is X in the following ${}_{7}N^{14} + {}_{1}H^{1} -$	owing nuclear reaction? $\longrightarrow {}_{8}O^{15} + X$	eaction?	The product of following reaction is : $2CH_3MgBr + CH_2O \longrightarrow$							
	$_{7}N^{14} + _{1}H^{1} - $ (a) $_{0}n^{1}$ (c) $_{+1}e^{0}$	(b) $_{-1}e^{0}$ (d) γ		(a) CH ₃ OH	(b) C ₂ H ₅ OH						
78.		PbCl ₂ at 298 K is 1×10^{-6} .	88.	(c) CH ₄ (d) C ₂ H ₆ Freon used as refrigerant is:							
		olubility of PbCl ₂ in mol/L		(a) $CF_2 = CF_2$	(b) CH ₂ F ₂						
	is: $(2) (1 \times 10^{-6})^{1/2}$	(b) $(1 \times 10^{-6})^{1/3}$		(c) CCl ₂ F ₂	(d) CF ₄						
	(a) $(1 \times 10^{-6})^{1/2}$ (c) $(0.25 \times 10^{-6})^{1/3}$	(d) $(0.25 \times 10^{-6})^{1/2}$	89.	Lucas reagent is:							
79.	The pH of a 0.001 M			(a) anhy. ZnCl ₂ and NH ₃							
	(a) 0	(b) 3		(b) anhy. ZnCl₂ and(c) anhy. ZnCl₂ and							
		(d) 10		(d) anhy. ZnCl ₂ and							
80.	Gold number is assoc		90.	-	can catalyse the conversion						
	(c) purple of cassius	(b) protective colloids (d) electrophoresis		of glucose to ethano	ol is:						
81.		in discharge tubes to give		(a) zymase							
		ddish-orange glow is due	0.1	(c) maltase							
	to:		91.	product is/are:	etone reacts with HIO ₄ , the						
	(a) Ar (c) Xe	(b) Ne (d) Kr		(a) HCHO							
82		the correct order for first		(b) НСООН							
02.	ionisation potential is			(c) HCHO and HCC							
	(a) K > Na > Li		0.0	(d) HCHO and CO ₂							
	(c) $B > C > N$	(d) Ge > Si > C	92.	Fehling's solution?	lowing does not reduce						
83.	Dry ice is:	(h)1:Jh			(b) Formic acid						
	(a) solid CO₂(c) solid SO₂	(d) solid NO ₂		(c) Glucose							
84.		ol are miscible in water	93.	Sodium formate on							
	due to:			(a) oxalic acid and							
	(a) covalent character			(b) sodium oxalate(c) sodium oxalate	and H ₂						
	(b) hydrogen bonding(c) oxygen bonding			(d) CO ₂ and caustic	c soda						
	(d) none of the abov		94.	- 4	formate with excess of						
85.	Stereoisomers differ	in:		CH3MgI followed by							
	(a) configuration				(b) isopropyl alcohol						
	(b) conformation	_		(c) acetaldehyde	(d) acetone						
	(c) they do not diffe(d) none of the above		95.	Hydrolysis of pheny	(b) formic acid						
	(a) none of the above			(a) benzoic acid(c) acetic acid	(d) none of these						
					(3)						

96. Styrene can be purified by: 99. The hybridisation state of carbon in fullerene (a) simple distillation is: (b) fractional distillation (a) sp (b) sp^2 (c) steam distillation (c) sp^3 (d) sp^3d (d) vacuum distillation 100. A fruity smell is produced by the reaction of 97. Which of the following is not reducing sugar? C2H5OH with: (a) Glucose (b) Fructose (a) CH3COCH3 (c) Lactose (d) Sucrose (b) CH₃COOH 98. The monomer of teflon is: (c) PCl₅ (d) CH₃CHO (a) $CHF = CH_2$ (b) $CF_2 = CF_2$ (c) CHCI = CHCI (d) CHF = CHCI

Answer Key

51.	d	52.	a	53.	a	54.	а	55.	d	56.	а	57.	d	58.	a	59.	С	60.	d
61.	С	62.	b	63.	d	64.	a	65.	a	66.	b	67.	a	68.	b	69.	d	70.	С
71.	b	72.	С	73.	d	74.	a	75.	С	76.	a	77.	d	78.	С	79.	b	80.	b
81.	b	82.	b	83.	a	84.	b	85.	a	86.	a	87.	b	88.	С	89.	С	90.	а
91.	d	92.	d	93.	b	94.	C	95.	b	96.	d	97.	۷d۸	98.	b	99.	Uby	100.	b