	mass of 70% H ₂ SO ₄ required is:		54.	The highest dipole moment is of:		
	(a) 48 g (c) 49 g	(b) 70 g (d) 35 g		(a) CF ₄ (b) CH ₃ OH (c) CO ₂ (d) CH ₃ F		
52.	nitrate produce : (a) CoBaO	(b) CoZnO (d) CoMgO	55.	The normality of mixture obtained by mixing 100 mL of 0.2 M $\rm H_2SO_4$ and 200 mL of 0.2 M $\rm HCl$ is :		
53.	(c) CoSrO The most stable car	(-,		(a) 0.0267 (b) 0.2670 (c) 1.0267 (d) 1.1670		
	(a) CH ₃ CH ₂	(b) C ₆ H ₅ CH ₂	56.	The green house effect is caused by :		
	es ou tuou	ch au au âu		(a) NO (b) NO ₂		

(c) CO

(d) CO_2

51. For neutralisation of one mol of NaOH the

(c) $C_6H_5\dot{C}HC_6H_5$ (d) $C_6H_5CH_2\dot{C}H_2$

	The density of air is 0.001293 g/cc. Its vapour density is : (a) 0.001293 (b) 8.2786 (c) 14.48 (d) 6.2706	67.	Excess of ethanol and conc. H ₂ SO ₄ on heating up to 140°C. To produce: (a) diethyl either (b) diethyl sulphate (c) ethyl hydrogen sulphate		
58.	The process of heating and suddenly cooling of steel is known as: (a) tempering (b) annealing (c) hardening (d) nitriding	68.	(d) ethylene The shape of IF ₇ molecule is: (a) pentagonal bipyramidal		
59.	The bonding present between the carbon atoms of graphite : (a) metallic		(b) trigonal pyramidal (c) tetrahedral (d) square planar The kinetic energy of 14 a of nitrocon according		
60	(b) ionic (c) covalent (d) van der Waals' forces Compressibility factor for 1 mole of a		The kinetic energy of 14 g of nitrogen gas at 127°C is [gas constant = 8.31 J/K/mol] (a) 4.4673 kJ (b) 3.857 kJ (c) 2.493 kJ (d) 1.857 kJ		
00.	Compressibility factor for 1 mole of a van der Waals' gas at 0°C and 100 atmospheric pressure is found to be 0.5 the volume of gas molecules is:		Born-Haber cycle is used to determine: (a) electron affinity (b) lattice energy (c) crystal energy (d) all of these		
	(a) 2.0224 (b) 1.4666 (c) 0.8542 (d) 0.1119	71.	The oxidation number of phosphorus in $Ba(H_2PO_2)_2$ is :		
61.	An ideal gas is allowed to expand under adiabatic conditions. The zero value is of:		(a) $+1$ (b) -1 (c) $+2$ (d) $+3$		
	(a) $\Delta T = 0$ (b) $\Delta S = 0$ (c) $\Delta G = 0$ (d) none of these	72.	A gas diffuses four times as quickly as oxygen. The molecular weight of gas is:		
62.	The maximum valency of an element having atomic number seven is:		(a) 2 (b) 4 (c) 8 (d) 16		
	(a) 1 (b) 3 (c) 5 (d) 7	73.	Vitamin B ₁₂ contains the metal is: (a) cobalt (b) manganese		
63.	NH ₄ Cl solution is : (a) neutral (b) acidic (c) basic (d) amphoteric	74.	(c) magnesium (d) iron The compound responds to Tollen's reagent is: (a) CH ₃ COCH ₃ (b) CH ₃ CHO		
64.	For first order reaction, the unit of rate constant is: (a) L mol ⁻¹ time ⁻¹ (b) mol L ⁻¹ time ⁻² (c) time ⁻¹ (d) none of the above		(c) CH ₃ CONH ₂ (d) CH ₃ COOH When chloroform is exposed to air and sunlight the compound obtained is: (a) chloral (b) acetyl chloride (c) phosgene (d) methyl chloride		
65.	Aniline chloroform and alcoholic KOH reacts to produce a bad smelling substance which is: (a) phenyl isocyanide (b) phenyl cyanide (c) chloro benzene (d) benzyl alcohol		The laughing gas is: (a) nitrous oxide (b) dinitrogen trioxide (c) nitric oxide (d) nitrogen peroxide Alkyl halide on heating with dry Ag ₂ O produce: (a) ether (b) ester		
66.	In the titration of iodine against hypo the indicator used is : (a) starch (b) potassium ferricyanide (c) methyl orange (d) methyl red	78.	(c) ketone (d) hydrocarbon Borazine is represented by the molecular formula: (a) B ₆ H ₆ (b) B ₅ NH ₆ (c) B ₄ N ₂ H ₆ (d) B ₃ N ₃ H ₆		

79.	The product is obtained by the reaction of an		(c) antiseptic (d) antibiotic
	aldehyde and hydroxylamine is : (a) hydrazone (b) aldoxime (c) primary amine (d) alcohol	90.	Which of the following compound can be easily sulphonated?
80.	Which one of the following is not a		(a) Chlorobenzene (b) Nitrobenzene (c) Toluene (d) Benzene
	chromophore ? (a) —NO (b) —N=N— (c) —NO ₂ (d) —NH ₂	91.	l=3 then the values of magnetic quantum numbers are : (a) $\pm 1, \pm 2, \pm 3$ (b) $0, \pm 1, \pm 2, \pm 3$
	The isomer of ethyl alcohol is: (a) diethyl ether (b) dimethyl ether (c) acetaldehyde (d) acetone	92.	(c) -1, -2, -3 (d) 0, +1, +2, +3 The electrical conduction is shown by: (a) potassium (b) sodium
82.	Buffer solutions can be obtained by mixing aqueous solution of : (a) NaOH and HCl (b) CH ₃ COOH and NaOH	93.	(c) graphite (d) diamond Carborundum is: (a) CaC ₂ O ₄ (b) Al ₂ (CO ₃) ₃ (c) CaH ₂ (d) SiC
83.	(c) CH ₃ COONa and CH ₃ COOH (d) CH ₃ COONa and HCl An element having atomic number 56 belongs	94.	The base not present in DNA is: (a) uracil (b) guanine (c) adenine (d) cytosine
	to: (a) lanthanides (b) actinides (c) alkaline earth metals (d) none of the above	95.	The monomers of terylene are: (a) phenol and formaldehyde (b) ethylene glycol and phthalic acid (c) adipic acid and hexamethylene diamine (d) ethylene glycol and terephthalic acid
84.	Dry ice is : (a) dry CO_2 gas (b) solid SO_2 (c) solid NH_3 (d) solid CO_2	96.	The most polar bond is: (a) C—F (b) C—O
85.	The alicyclic compound is : (a) cyclohexane (b) cyclohexene (c) pyrrole (d) hexane	97.	(c) C—Br (d) C—S Brownian movement is found in: (a) unsaturated solution
86.	Adsorbed hydrogen by palladium is known as: (a) nascent (b) atomic (c) heavy (d) occluded		(b) saturated solution (c) colloidal solution (d) suspension solution
87.	 (a) benzoin is converted into benzylic acid (b) benzaldehyde is converted into benzoin (c) benzyl is converted into benzylic acid (d) benzylic acid is converted into benzyl 38. On heating O₃, its volume : (a) remains unchanged (b) becomes doubled 		The rate of a chemical reaction depends on: (a) pressure (b) time (c) concentration (d) all of these
0.0			The positive charge of an atom is: (a) distributed around the nucleus (b) concentrated at the nucleus
88.			 (c) spread all over the atom (d) none of the above The increasing order of acidity of H₂O₂, H₂O
	(c) becomes half (d) becomes $\frac{3}{2}$ times	100.	and CO ₂ is: (a) H ₂ O ₂ > H ₂ O > CO ₂
89.	Chloramphenicol is an: (a) analgesic (b) antipyretic		(b) H ₂ O ₂ > CO ₂ > H ₂ O (c) H ₂ O > H ₂ O ₂ > CO ₂ (d) H ₂ O < H ₂ O ₂ < CO ₂

Answer Key

66. a

76. a

86. d

96. a

65. a

75. c

95. d

85. a,b

57. c

67. a

77. a

87. c

97. c

58. c

68. a

78. d

88. d

98. d

59. c

69. c

79. b

89. d

99. b

60. d

70. d

80. d

90. c

100. d

				Allowel Key		
51. b	52. b	53. c	54. d	55. b	56. d	I
			THE RESERVE OF THE PERSON NAMED IN COLUMN 1			-

64. c

74. b

84. d

94. a

63. b

73. a

83. c

93. d

61. b

71. a

81. b

91. b

62. c

72. a

82. c

92. c