51. Monds process is used for :
(a) Ni (b) Al
(c) Fe (d) Cu

52. Which of the following yield both alkane and alkene ?
(a) Kolbe's reaction
(b) Williamson's synthesis
(c) Wurtz reaction
(d) Sandmeyer reaction

53. Bessemer converter is used for the preparation of :
(a) steel (b) wrought iron
(c) pig iron (d) cast iron

54. Lanthanides and actinides resemble in :
(a) electronic configuration
(b) oxidation state
(c) ionisation energy
(d) formation of complexes

55. Mg and Li are similar in their properties due to :
(a) same e/m ratio
(b) same electron affinity
(c) same group
(d) same ionic potential

56. How will your separate mixture of two gases ?
(a) Fractional distillation technique
(b) Graham's law of diffusion technique
(c) Osmosis
(d) Chromatography

57. Which of these have no unit ?
(a) Electronegativity
(b) Electron affinity
(c) Ionisation energy
(d) Excitation potential

58. "The addition of unsymmetrical reagents to unsymmetrical alkenes occurs in such a way that the negative part of the addendum goes to that carbon atom of the double bond which carries lesser number of hydrogen atoms" is called by :
(a) Saytzeff rule (b) Markownikoff's rule
(c) Kharasch effect (d) Anti-Saytzeff rule

59. The molecule of CO_2 has angle 180°. It can be explained on the basis of :
(a) sp^3 hydridisation (b) sp^2 hybridisation
(c) sp hybridisation (d) d^2sp^3 hybridisation

60. Fusion bomb involves :
(a) combination of lighter nuclei into bigger nucleus
(b) destruction of heavy nucleus into smaller nuclei
(c) combustion of oxygen
(d) explosion of TNT

61. Which of the following gas mixture is used by the divers inside the sea ?
(a) $O_2 + He$ (b) $O_2 + Xe$
(c) $O_2 + Ar$ (d) $O_2 + N_2$

62. Photoelectric effect is maximum in :
(a) Cs (b) Na
(c) K (d) Li

88. Which of the following oxides of nitrogen is solid ?
(a) NO_2 (b) N_2O
(c) N_2O_3 (d) N_2O_5

89. Containers *A* and *B* have same gases. Pressure volume and temperature of *A* are all twice that of *B*, then the ratio of number of molecules of *A* and *B* are :
(a) 1 : 2 (b) 2 : 1
(c) 1 : 4 (d) 4 : 1

90. The ratio of area covered by second orbital to the first orbital is :
(a) 1 : 2 (b) 1 : 16
(c) 8 : 1 (d) 16 : 1

91. Among the following, an intensive property is :
(a) mass (b) volume
(c) surface tension (d) enthalpy

92. Stainless steel is an alloy of :
(a) copper
(b) nickel and chromium
(c) manganese
(d) zinc

93. Orlon has a unit :
(a) vinyl cyanide (b) acrolein
(c) glycol (d) isoprene

94. Structure of H_2O_2 is :
(a) planar (b) non planar
(c) linear (d) three-dimensional

95. Triple point of water is :
(a) 273 K (b) 373 K
(c) 203 K (d) 193 K

96. What is the percentage of acetic acid present in vinegar ?
(a) 6-10% (b) 70-80%
(c) 7-8% (d) 90-100%

97. Nitrous oxide is known as :
(a) breathing gas (b) laughing gas
(c) exercising gas (d) laboratory gas

98. Which of the following is the buffer solution ?
(a) $CH_3COOH + CH_3COONa$
(b) $CH_3COOH + CH_3COONH_4$
(c) $CH_3COOH + NH_4Cl$
(d) $NaOH + NaCl$

99. The elements used for dating the ancient remains is :
(a) Ni (b) C-14
(c) C-12 (d) Rd

100. Percentage of silver in German silver is :
(a) 0% (b) 1%
(c) 5% (d) none of these

Answer Key

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