JEXPO 2013 Solved paper Chemistry With Answers

51.CuSO45H2O---T1----CuSO4,H2----T2---CuSO4 In this process T1 ad T2 are respectively as Ans.: (C) 125°C and 200°C 52. Excess ammonia on reaction with Cl2 gas forms Ans.: (C) NCl3 53. Nitrolim is a mixture of Ans.: (B) CaCN2 and C 54. For HNO3 identification, we run 'ring test', the composition of which is Ans.: (C) Fe(NO)(H2O)5SO4 55. Identification of original diamond is done by Ans.: (B) x-ray 56. Components of producer gas are Ans.: (C) CO+H2 57. Baking powder is a mixture of Ans.: (C) Sodium bicarbonate and potasium hydrogen tartarate 58. Main components of german silver are Ans.: (D) Cu-Zn-Ni 59. The formula of Nesslar's regent is Ans.: (C) K2Hgl4 60. A small amount of powder is added into dil,. H2SO4 acid solution and the evolved gas turbids lime water. Powder and gas are Ans.: (D) ferrous sulphide and hydrogen sulphide 61. When an aqueous solution of Ba(NO3)2 is added to a dilute solution of an acid a white precipitate is formed. The precipitate is insoluble in hydrochloric acid. What is the acid Ans.: (B) HCI 62. Which of the following metals is present in all the three alloys-brass, bronze and duralumin? Ans.: (B) Cu 63. Lightest metal is Ans.:(C) Lithium 64. On contact of two gases a solid is formed. Two gases are Ans.: (A) H2S and NH3 65. Washing liquid for photographic plate is Ans.: (C) sodium thio-sulphate solution 66. In which of the following reactions a black precipitate is not formed? Ans.: (C) CuSO4 + H2S---> 67. For plastering of broken hands and legs the following sulphate compound is used Ans.: (B) CuSO4 68. Conc. H2SO4 has no action on which class of compounds? Ans.:(A) Metal Sulphides**** 69. The formula of brown ring, formed in the ring test of nitrate radical is Ans.: (A) [Fe(H2O)5(NO)2]SO4 70. Which of the following can not decolourise bromine?

Ans.:(A) ethylene

71. How many covalent bonds are present in the molecule C3H8?

Ans.: (C) 10

72. C4H6-- this hydrocarbon can not contain

Ans.: (B) One triple bond in the molecule

73. The components of a mixture of diethyl ether and acetone may be separated through? Ans.: (A) Sublimation****

74. The pungent smell of the gas coming out from leakage of LPG cylinder is due to

Ans.: (D) mercaptane

75. 2.5 mole of anhydrous copper (II) sulphate is converted completely to blue vitriol. How many moles of water has been added to it

Ans.: (C) 12.5 Mole

76. Which of the following when dissolved in water produce neutral aqueous solution

Ans.: (B) Common salt

77. Which of the following salts makes aqueous solution as acidic

Ans.: (B) NH4HSO4

78. A compounded, where electrovalent, covalent and coordinate, all three types of body exist is Ans.: (B) Ca(OCL)CL

79. How much amount of CO2 may be obtained from 10kg of lime stone?

Ans.: (B) 4.4 kg

80. According to pentration power which one of the following is correct?

Ans.: (C) x-ray > γ -ray > α -ray > β -ray

81. Find the total charges present in 0.2 mole of phosphate (PO43-) ion.

Ans.: (unknown to me)

82. Litmus test of aqueous suspension of soap shows

Ans.: (B) red litmus turns to blue

83. Both the ions of which of the following pairs have 8 electrons in the L-shell?

Ans.: (B) S2- and Cl-

84. A gas at 1atm. pressure of volume 100 liter is heated from 100°C to 200°C. If volume remains constant then find out its pressure?

Ans.: (B) 1.268 atm.

85. Which of the following is most metallic in nature?

Ans.: (A) Mn

86. How does the nature of oxides of ther elements changes across a period (i.e. from left to right) in the periodic table?

Ans.: (B) basic-->acidic-->neutral

87. How many iones are produceed in the aqueous solution s by their dissociation when 1 mole of ferrous sulphate and 1 mole of feric sulphate are dissolved in excess of water

Ans.: (A) 3N

88. Flourine (F), Chlorine(CI), Bromine(Br) and Iodine(I) follow electronegativity order:

Ans.:(B) I<Br<CI<F

89. Which of the following is amphoteric oxide?

Ans.: (C) Al2O3

90. How many hydrogen atom are present in 2g of methane?

Ans.: (A) 3.011 x 1023

91. 19K39 and 20Ca40 are converted to mono-positive and Di-positive ions respectively. The number of which particle / particles is/are the same in both the ions

Ans.: (B) electrons and neutrons

92. Which of the following is the electronic arrangement of CA atom?

Ans.: (C) K(2)L(8)M(8)N(2)

93. Hydrogen of acetylene is more acidic than hydrogen of ethylene, because hydrogen of acetylene attached to

(B) SP2 carbon

94. On heating ammonium cyanate produces

Ans.: (A) Urea

95. Ethanol and dimethyl ether, the two different compounds are having the same formula, this property is known as

Ans.: (D) Isomerism

96. What are the functional groups present in the two isomeric compounds having the same molecular formula C3H6O

Ans.: (B) One isomer contains >C=O group and the other -OH group

97. The catalyst which is used for converting acetylene to ethylene is known as ?

Ans.: (A) Lindlar catalyst

98. Eco-friendly polymer is

Ans.: (B) Polyvinyl Chloride

99. An organic compound which contains both the amine and carboxylic acid group is

Ans.: (D) vinegar

100. The monomer of teflon polymer is

Ans.:(C) tetrafluoro ethylene