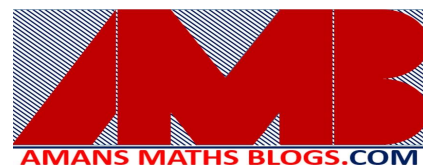


JSTSE : PREVIOUS YEARS

(CHEMISTRY : 2012)

41. Which chemical is mixed in LPG to detect its leakage:
- (1) H₂S (2) MIC
(3) Mustard gas (4) Ethanethiol
42. Chemically the water gas is:
- (1) H₂O (gaseous) (2) CO + H₂
(3) CO₂ + H₂ (4) CO + N₂
43. The composition of Germansilver alloy is:
- (1) 70% Cu + 30% Zn (2) 60% Cu + 30% Zn + 10% Ag
(3) 60% Ag + 40% Cu (4) 20% Cu + 30% Zn + 40% Ni
44. The Latin name of metal Tungsten is:
- (1) Natrium (2) Ferrym
(3) Wolfram (4) Kalium
45. Which is not related to colloidal solution :
- (1) Tyndall Effect (2) Electrophoresis
(3) Very unstable (4) Brownian movement
46. One amu equals to:
- (1) 1.66×10^{-24} kg (2) 1.66×10^{-24} g
(3) 1.66×10^{-24} mg (4) 1.66×10^{-24} pounds
47. Umber of neutrons in 8 g He
- (1) 6.022×10^{23} (2) $2 \times 6.022 \times 10^{23}$
(3) $3 \times 6.022 \times 10^{23}$ (4) $4 \times 6.022 \times 10^{23}$
48. Who discovered the nucleus
- (1) J. J. Thomson (2) Goldstein
(3) Rutherford (4) Chadwick



49. Cinnabar is an ore of:
- (1) Copper (2) Mercury
(3) Silver (4) Zinc
50. Which cell is used in wrist watches:
- (1) Mercury cell (2) Daniel Cell
(3) Leclanchecell (4) Fuel cell
51. Which rule is applicable on the dissolution of CO₂ gas in cold drinks:
- (1) Hess'Law (2) Henry's Law
(3) Kohlrausch Law (4) Dalton's Law
52. Which one is not acidic in nature :
- (1) BF₃ (2) NH₃
(3) B(OH)₃ (4) AlCl₃
53. Chemically the P.O.P. is:
- (1) CaSO₄.2H₂O (2) (CaSO₄)₂.H₂O
(3) Ca(OH)₂ (4) (CaSO₄)₂.H₂O
54. Sodalime is:
- (1) NaOH + KOH (2) CaO + Ca(OH)₂
(3) NaHCO₃ + Na₂CO₃ (4) NaOH + CaO
55. Which is not an alum:
- (1) K₂SO₄.Al₂.(SO₄)₃.24H₂O (2) Na₂SO₄.Al₂.(SO₄)₃.24H₂O
(3) K₂SO₄.Cr₂.(SO₄)₃.24H₂O (4) FeSO₄.(NH₄)₂.SO₄.24 H₂O
56. Metal present in chloroplast is:
- (1) Iron (2) Copper
(3) Cobalt (4) Magnesium
57. Which water soluble vitamin can be stored in our body:
- (1) Vit-B₁ (2) Vit-B₂
(3) Vit-B₆ (4) Vit-B₁₂
58. The main component of LPG is:
- (1) Methane (2) Ethane
(3) Propane (4) Butane
59. The most abundant element of the universe is:
- (1) Oxygen (2) Silicon
(3) Hydrogen (4) Sodium
60. BHA and BHT are used as:

- (1) Insecticide (2) Food Preservative
(3) Drugs (4) Fuels
61. TEL is used as:
(1) Telephone device (2) Medicine
(3) Antiknock agent (4) Food Preservative
62. BOD and COD are:
(1) Research Organisation
(2) Organic compounds
(3) Parameters to measure air pollution
(4) Parameters to measure water pollution
63. The energy of an electron in an atom is:
(1) Always negative (2) Always positive
(3) Always zero (4) All the above
64. Tear gas is :
(1) N_2O (2) O_2N . CCl_3
(3) SO_2 (4) H_2S
65. Which one is not a green house gas:
(1) N_2O (2) CH_4
(3) H_2O (Vapour) (4) CO_2
66. 2,4-Dis:
(1) Fungicide (2) Insecticide
(3) Bactericide (4) Weedicide
67. The pH of acid rain water is:
(1) < 5.6 (2) < 7.0
(3) < 8.0 (4) > 7.0
68. The name of a polymeric plastic on which oil and water do not stick and is used to make non-sticky cook-ware is:
(1) Polythene (2) Bakelite
(3) Dacron (4) Teflon
69. The chemical composition of rust of copper (green coating) is:
(1) $CuSO_4 \cdot 5H_2O$ (2) $Cu(OH)_2 + CuCO_3$
(3) $CuSO_4 + Fe_2O_3$ (4) $CuSO_4 + CuCO_3$
70. Choose the incorrect pair:
(1) MgO - Basic Oxide (2) SO_2 -Acidic Oxide
(3) CO - Neutral Oxide (4) P_4O_{10} - Basic Oxide

71. Bitumen is:
- (1) a petroleum product used in place of coal tar
 - (2) an insecticide used to kill bests
 - (3) a fossil fuel used to burn in heavy vehicle
 - (4) a polymer used to make cloths
72. What is gasohol?
- (1) Green house gas
 - (2) a hole in space
 - (3) mixture of petrol and ethyl alcohol
 - (4) mixture of petrol & kerosene oil
73. Which one has highest calorific value?
- (1) CNG
 - (2) LPG
 - (3) Hydrogen Gas
 - (4) Biogas
74. Choose incorrect pair:
- (1) Hair-protein
 - (2) Bones-calcium phosphate
 - (3) Cotton - Carbohydrate
 - (4) Silk-hat
75. Which hormone is used for 'induced lactation'?
- (1) Adrenaline
 - (2) Oxytocin
 - (3) Vasopressin
 - (4) Auxin
76. The heat energy in sun/stars is produced by:
- (1) Nuclear fission reaction
 - (2) Combustion reaction
 - (3) Nuclear fusion reaction
 - (4) Thermochemical reaction
77. What is wrong about fatty acids:
- (1) a component of fat
 - (2) found in fatty men only
 - (3) always contain even number of carb-atom
 - (4) used to make soaps
78. Which of the following will not sublime:
- (1) camphor
 - (2) Ammonium chloride
 - (3) Calcium Chloride
 - (4) Iodine
79. The temperature at which vapour pressure of a liquid becomes equal to the atmospheric pressure is:
- (1) Boiling point
 - (2) Melting point
 - (3) Freezing point
 - (4) Sublimation point
80. In which sodium metal cannot be stored:
- (1) Kerosenoil
 - (2) Paraffin wax
 - (3) Ether
 - (4) Alcohol