

Time: 20 Minutes

OBJECTIVE

Code : 6487

Marks: 17

Note: You have four choices for each objective type question as A, B, C and D. The choice which you think is correct, fill that circle in front of that question number. Use marker or pen to fill the circles. Cutting or filling two or more circles will result in zero mark in that question.

1. 1 - The molar volume of CO_2 is maximum at
(A) STP (B) 127°C and 1 atm (C) 0°C and 2 atm (D) 273°C and 2 atm
- 2 - Molarity of pure water is
(A) 1 (B) 18 (C) 55.5 (D) 6
- 3 - The rate of reaction
(A) increases as the reaction proceeds (B) decreases as the reaction proceeds
(C) remains same as the reaction proceeds (D) may increase or decrease as reaction proceeds
- 4 - Water boils at 98°C at external pressure of
(A) 700 torr (B) 765 torr (C) 800 torr (D) 900 torr
- 5 - Stronger is the oxidizing agent, greater is the
(A) oxidation potential (B) reduction potential
(C) redox potential (D) emf of the cell
- 6 - Catalyst used in conversion of SO_2 into SO_3 in contact process is
(A) MgO (B) Al_2O_3 (C) SiO_2 (D) V_2O_5
- 7 - Quantum number values for 2P orbital are
(A) $n=2, l=1$ (B) $n=1, l=2$ (C) $n=1, l=0$ (D) $n=2, l=0$
- 8 - The change in heat energy of a chemical reaction at constant temperature and pressure is called
(A) enthalpy change (B) heat of sublimation
(C) bond energy (D) internal energy change
- 9 - Oxidation number of Fluorine in OF_2 is
(A) -1 (B) -2 (C) +2 (D) +1
- 10 - Gooch crucible is made up of
(A) porcelain (B) silver (C) iron (D) glass
- 11 - Mass of one mole of electrons is
(A) 1.008 mg (B) 0.55 mg (C) 0.184 mg (D) 1.673 mg
- 12 - The partial pressure of Oxygen in air is
(A) 116 torr (B) 159 torr (C) 180 torr (D) 190 torr
- 13 - Calorie is equivalent to
(A) 0.4184 J (B) 41.84 J (C) 4.184 J (D) 418.4 J
- 14 - The pH of 10^{-3} moles/ dm^3 of an aqueous solution of H_2SO_4 is
(A) 3.0 (B) 2.7 (C) 2.0 (D) 1.5
- 15 - The number of bonds in Nitrogen molecule is
(A) one Sigma and One Pi (B) One Sigma and Two Pi
(C) Three Sigma only (D) Two Sigma one Pi
- 16 - Ionic solids are characterized by
(A) low melting points (B) good conductivity in solid state
(C) high vapour pressure (D) solubility in polar solvents
- 17 - Nickel has isotopes
(A) 2 (B) 3 (C) 4 (D) 5