

Roll No _____ (To be filled in by the candidate) (Academic Sessions 2019 – 2021 to 2022 – 2024)

CHEMISTRY

223-1st Annual-(INTER PART – I)

Time Allowed : 20 Minutes

Q.PAPER – I (Objective Type)

GROUP – II

Maximum Marks : 17

PAPER CODE = 6484

Note : Four possible answers A, B, C and D to each question are given. The choice which you think is correct, fill that circle in front of that question with Marker or Pen ink in the answer-book. Cutting or filling two or more circles will result in zero mark in that question.

1-1	Which of the following is a pseudo solid : (A) CaF_2 (B) Glass (C) NaCl (D) KCl
2	The number of bonds in nitrogen molecule is : (A) One σ and two π (B) One σ and one π (C) Three sigma only (D) Two sigma and one π
3	Molarity of pure water is : (A) 1 (B) 18 (C) 55.5 (D) 6
4	Photochemical reactions are : (A) Zero Order Reaction (B) First Order Reaction (C) Second Order Reaction (D) Third Order Reaction
5	The largest number of molecules are present in : (A) 3.6 g of H_2O (B) 4.8 g of $\text{C}_2\text{H}_5\text{OH}$ (C) 2.8 g of CO (D) 5.4 g of N_2O_5
6	The pH of $10^{-3} \text{ mol dm}^{-3}$ of an aqueous solution of H_2SO_4 is : (A) 3.0 (B) 2.7 (C) 2.0 (D) 1.5
7	The comparative rates at which the solutes move in paper chromatography depend on : (A) The size of the paper (B) R_f values of solutes (C) Temperature of the experiment (D) Size of the chromatographic tank used
8	The quantity of heat required to change the temperature of a body by 1 Kelvin is known as : (A) Heat energy (B) Enthalpy (C) Heat capacity (D) Heat of a reaction
9	Electroplating is done by one of the following methods : (A) Hydration (B) Hydrolysis (C) Electrolytic conduction (D) Electrolysis
10	All gases can be liquefied by the Lind's method, except : (A) N_2 (B) O_2 (C) F_2 (D) He
11	The number of moles of CO_2 which contain 8 g of oxygen : (A) 0.25 (B) 0.50 (C) 1.0 (D) 1.50
12	When 6d orbital is complete, the entering electron goes into : (A) 7f (B) 7s (C) 7p (D) 7d
13	The existence of an element in more than one crystalline forms is known as : (A) Polymorphism (B) Allotropy (C) Symmetry (D) Anisotropy
14	For a given process, the heat changes at constant pressure q_p and q_v at constant volume are related to each other as : (A) $q_p = q_v$ (B) $q_p < q_v$ (C) $q_p > q_v$ (D) $q_p = \frac{q_v}{2}$
15	The molar volume of CO_2 is maximum at : (A) S.T.P (B) 127°C and 1 atm. (C) 0°C and 2 atm. (D) 273°C and 2 atm.
16	Purification of NaCl by passing HCl gas is the example of : (A) Filtration (B) Sublimation (C) Ionic product (D) Common ion effect
17	If the salt bridge is not used between two half cells, then the voltage : (A) Decreases rapidly (B) Decreases slowly (C) Does not change (D) Drops to zero