SGD-11-G1-P1 Warning:- Please write your Roll No. in the space provided and sign Roll No-----(Inter Part - I) (Session 2019-21 to 2022-24) Sig. of Student ----(Objective) Chemistry (Group - I) Paper (I) **PAPER CODE 2481** Time Allowed: - 20 minutes Maximum 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. Write PAPER CODE, which is printed on this question paper, on the both sides of the Answer Sheet and fill bubbles accordingly, otherwise the student will be responsible for the situation. Use of Ink Remover or white correcting fluid is not allowed. 0.1 1) The volume occupied by 1.4 g of N₂ at S.T.P. is (A) $1.12 \, dm^3$ (B) 2.24 dm^3 (C) 22.4 dm^3 (D) 112 cm³ 2) Which of the following is a monoisotopic element. (A) Silver (B) Calcium (C) Chlorine (D) Fluorine 3) Which of the following can be sublime. (D) Na_2CO_3 (A) Calcium (B) NaCl (C) Naphthalene 4) Constant factor in charlie's law. (A) Volume (B) Pressure (C) Tempreture (D) Both V and T 5) The order of rate of diffusion of gases NH₃, SO₂, Cl₂ and CO₂ is (A) NH₃>CO₂>SO₂>Cl₂ (B) NH₃>SO₂>Cl₂>CO₂ (C) Cl₂>SO₂>CO₂>NH₃ (D) NH₃>CO₂>Cl₂>SO₂ 6) Which of the following is amorphous solid (D) CaF₂ (A) NaCl (B) Glass (C) NaBr 7) Which of the following has highest vapour pressure at 25°C (A) Mercury (B) Ethanol (C) $CC\ell_4$ (D) Chloroform 8) When 6d orbital is complete the entering electron goes into (A) 7f (B) 7s (C) 7d (D) 7p 9) Number of bonds in nitrogen molecule is (B) Three sigma (C) Two sigma and one π (D) One σ and Two π (A) One σ and one π 10) Units of energy in which heat changes in S.I system are. (A) Joule (B) Torr (C) Erg (D) Newton 11) The net heat change in a chemical reaction is same weather the reaction completes in one step or several steps. It is known as (A) Henry's law (B) Joule's principle (C) Hesse's law (D) Law of conservation of energy 12) Mixture of NH₄OH and NH₄Cl makes a buffer whose pH is (A) less than seven (B) 7 (C) More than seven (D) 4 13) For the reaction $N_2+3H_2 \rightleftharpoons 2NH_3$, The pressure at optimum condition is. (A) 100 atm (B) 600 atm (C) 200-300 atm (D) 1000 atm 14) Molarity of pure water is. (A) 01 (B) 55.5 (C) 18 (D) 8 15) If a strip of Cu metal is placed in a solution of FeSO₄ (A) Cu will be (B) Fe is precipitated out (C) Cu and Fe both (D) No reaction takes deposited dissolved place 16) Oxidation number of Mn in KMnO₄ is (A) + 5(B) + 7(C) +3(D) +217) The unit of rate constant is the same as that of the rate of reaction in (A) First order reaction (B) Second order (C) Zero order reaction (D) Third order

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reaction

