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HSSC-(P-I)-A/2024 (For All Sessions)

	Paper Code	6	4	8	1
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Marks: 17

Time: 20 Minutes

Chemistry (Objective)

(Group-1)

Note: Write Answers to the Questions on the objective answer sheet provided. Four possible answers A, B, C and D to each question are given. Which answer you consider correct, fill the corresponding circle A, B, C or D given in front of each question with Marker or Pen ink on the answer sheet provided. The mass of one mole of electron is: (A) 1.008 mg 0.55 mg (C) 0.184 mg (D) 1.673 mg In organic phase color of lodine is: (A) Brown Purple (B) (C) Colorless Green (D) Pressure remaining constant at which temp. The volume of a gas will become twice of it is at 0°C: 546°C 200°C (A) (B) 546 k (C) (D) 273 k lonic crystals are characterized by: Solubility in polar solvents Low melting point (C) High vapour pressure (D) Conductivity in solid state Number of crystal systems are: (B) 6 (C) (D) 4 When 6 d orbital is complete, the entering electron goes to: (A) (D) 7d Dipole moment of CS2 is: 2.2D 1.3D (A) 3.2D (B) (D) Zero Debye The net heat change in a chemical reaction is same whether it is brought about in two or more different ways in one or more than one steps, it's known as: Henry's law (B) Joul's principle (C) Hess's law Law of conservation of energy Which of the following solution have PH less than 7? NaCl NaOH (B) (C) $Ca(OH)_2$ (D) HCl 10. The boiling point constant is the ratio of the elevation in boiling point to: (A) (B) Mole fraction of solvent Molarity (D) Mole fraction of solute Molality Cathode reaction in the electrolysis of dil H2SO4 with Pt electrodes is: (A) Oxidation Reduction Both oxidation & reduction (D) Neither oxidation nor reduction 12. The unit of rate constant is the same as that of the rate of reaction in: First order reaction (B) Second order reaction (C) Third order reaction (D) Zero order reaction 13. Number of isotopes of tin are: (B) 10 (C) 6 (D) 11 14. Which of the following is sublime? lodine (B) Calcium (C) NaCl (D) Benzene 15. S.I unit of pressure is: $N.m^{-1}$ Psi (A) (B) Torr (C) mm of Hg (D) Positive rays are also called as: 16. Cathode rays (B) (A) Canal rays (C) X-rays (D) Magnetic rays Octet rule is not obeyed by the molecule: (A) NF_3 (B) CF4 (C) PF_5 (D) CO_2

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