CHEMISTRY SECTION "A" THURTYPLE CHAIN Time: 20 Minutes QUESTIONS) answer for each from the Chemical composition of colemanite is: (i) Ca₂B₆O₁₁.5H₂O • CaB₄O₇.4H₂O CaNaB₅O₇ . 8H₂O Na₂B₄O₇ . 4H₂O Coinage metals are elements of 1B group and these (ii) include: Cu, Ag, Au . Zn, Cd, Hg . Fe, Co, Ni . Cu, Zn, Ni Having half-filled valence shell, Hydrogen resembles the (iii) Elements of VA group Elements of IVA group Elements of VIA group Elements of VIIA group Plaster of Paris is obtained by heating: (iv) Gypsum • Epsom • Limestone • Dolomite The mixture of Aluminum powder and Aluminum nitrate (v) is known as: Aluminum bronze • Duralumin • Ammonal The commercial name of Phenol Formaldehyde Polymer (vi) Celluloid Teflon P.V.C. Bakelite is: the following hydrogenation reaction (vii) $CH \equiv CH \rightarrow CH_2 = CH_2 \rightarrow CH_3 - CH_3$ is change hybridization state of carbon atoms is: • $sp \rightarrow sp^2 \rightarrow sp^3$ $sp^3 \rightarrow sp^2 \rightarrow sp$ $sp^3 \rightarrow sp \rightarrow sp^2$ $sp^2 \rightarrow sp^3 \rightarrow sp$ (viii) The first step is similar in these mechanism: E1 and E2 • SN1 and E2 • E1 and SN2 • SN1 and E1 In Acetone, the numbers of bonds are: (ix) Nine σ and one π • Ten σ Eight σ and two π • Nine π and one σ Octane number is related to: (X) Gasoline • Kerosene • Diesel oil • Lubricating oil (xi) The reagent converts acetic acid into Acetyl Chloride is: NaCl • HCl/ZnCl₂ • SOCl₂ • HCl Sodium burns with excess of Oxygen to form its: (xii) Peroxide • Superoxide • Monoxide • Dioxide (xiii) It is not a member of Vitamin B complex: 12.30 Niacin • Folic acid • Resido of 1:3 by volume of: HCI, H₂SO₄ • HCI, HF (xiv) The New Perature at which two allotropic form of an element exist in equilibrium state is: Equilibrium Temperature Transition Temperature • Unstable Temperature Normal Temperature 700°C 2H2 + A. In the given reaction, 'A' is: (xvi) Absence of oxygen CO H₂O (xvii) This is not nitrogenous fertilizer: • Ammonium nitrate Urea • Ammonium sulphate • Triple phosphate