ESKP-ix1901 CHEMISTRY (New Course) - 9th Note: Time allowed 2:45 hours Marks: 32 Answer any EIGHT parts. Each part carries equal marks. Q2: Differentiate between empirical formula and molecular formula with suitable examples. What is the mass of 5 moles of ice (atomic masses: H = 1 amu, O = 16 amu) What is electronic configuration? Give the electronic configuration of Na11. Isotopes have different physical properties but have the same chemical properties. Why? iv. Differentiate between representative and transition elements with examples. ٧. Discuss ionic bond. Support your answer with suitable example. VI. Hydrogen bonding is an intermolecular force. Explain this statement. VII. What is evaporation? Give three factors on which evaporation depends. viii. What is molarity? ix. Why NaOH is a strong but NH4OH is a weak electrolyte? X. Give at least four uses of Calcium. Xi. Marks: 21 SECTION - C Note: Attempt any THREE of the following. All questions carry equal marks. What is Chemistry? Discuss contribution of Jabber-Ibn-Hayan in the field of Chemistry. (4) 03: (3) Discuss at least three main defects found in Rutherford's Atomic Model. 6) (4) State electronegativity alongwith factors affecting electronegativity. 04: a) Differentiate between unsaturated, saturated and super saturated solution. b) Explain Boyl's Law and verify this law experimentally. a) Q5: What is Lewis structure? Draw the Lewis structure of b) (i) CCl4 (ii) BFa and discuss at least three purposes of electroplating. (+) Q6: (3) Give at least three comparisons of metals and non-metals.