Paper Chemistry 2019 Marks: 48 Time: 1.45 hrs Essan Group - 1 PART-I Write short answers to any FIVE (5) questions: 10 2. Define empirical formula with an example. Give symbols of arsenic and silver. Differentiate between cation and anion. What do you mean by plum pudding theory? iv Define isotopes and give an example. Define Dobereiner's triads. What is meant by Shielding effect? Why are noble gases not reactive? Write short answers to any FIVE (5) questions: 10 3. Define duplet rule and octet rule. Write any two properties of ionic compounds. What do you mean by malleability? Define standard atmospheric pressure. Also write its iv unit. Convert -30°C to K unit Give two examples of suspension. vi Define aqueous solution. Also write one example What do you mean by volume / v example. s to any FIVE (5) questions: 10 Write short ans Why on a moussary for rusting? which solution is used as an electrolyte in Nelson's cell? Define Redox reactions. What is salt bridge? What is its basic function? What is meant by malleable and ductile metals? Write two uses of calcium. Why is HF a weak acid? Write down chemical reaction of sodium with H2 and Cl2. PART - II Note: Attempt any TWO questions. Write down five results of experiment of Rutherford's 5.(a) atomic model. Define element and explain the kinds of elements with (b) examples. Define co-ordinate covalent bond and explain it with an 6.(a) example. Write down any four typical properties of gases (b) Explain the manufacture of sodium meta room tused 7.(a) NaCl. Write any four characteristics of Collulo. (b)

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