Ninth, 2023 Group - III Chemistry Lahore Board Marks: 48 Time: 1.45 hrs. Essay Type PART-I Write short answers to any Five (5) questions: Define Avogadro's Number. What is meant by mole? Differentiate between shell and subshell. iii Write elect onic configuration of argon (Ar=18) iv Write the trend of shielding effect in period and group Define electronegativity. vi Why atomic number is a more fundamental property vii than atomic mass? viii Write names of elements of first period. Q.3 Write short answers to any Five (5) questions: Why do atoms react? Define chemical bond. ii Write name of different types of chemical bond? iii What is diffusion? Explain with an example iv Define standard atmospheric pressure. What are units? What is difference between dilute solution concentrated solution? Define unsaturated solution. viii Give an example for "Gas in Solid" solution. Q.4 Write short answers to any Five (5) questions: 10 difference between spontaneous and nonspontaneous reactions. ii Define non-electrolytes and give example. Define corrosion. iv What do you mean by galvanizing? Write its advantages. Write two physical properties of metals. vi What is the trend of electropositivity in group? vii Why platinum is used by jewellery making? Write reaction of fluorine with water. VIII Attempt any TWO questions. Note: Q.5(a) Calculate the humber of moles and number of molecules presentin 6 grams of water. Write any two results of Ruther Ford's experiment and two defects of Ruther Ford's atomic model. Q.6(a) What is an ionic bond? Discuss the formation of ionic bond between sodium and chlorine atom. (b) Differentiate between crystalline and amorphous cells. Q.7(a) What is galvanic cell? Write four differences between electrolytic and galvanic cell. (b) Define solubility. Describe effect of temperature on solubility.