CHEMISTRY-XI SUPER STAR COACHING CENTRE

Date: 3/16/2019 Guess paper XI

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SECTION 'C' (DETAILED QUESTION ANSWER)

- 1) Define Electrovalent Bond and Covalent Bond. Explain Sigma and Pi bond in terms of
 - Types of Overlapping
 - Strength of Bond
- 2) What is Normal Boiling Point? Explain why Boiling point of a liquid remains constant and effected by atmospheric pressure.
- 3) What are the defects of Rutherford atomic Model? Describe the Postulates of Bohr's atomic theory
- 4) Write the Postulates of K.M.T of gases. State and explain Graham's law of Diffusion
- 5) Explain the following with the help of Kinetic
 - Boyles Law Charles Law
 - Dalton's law of partial Pressure

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- 6) Give a Brief introduction of the following terms of liquid and Solid
 - Isomorphism
 - Evaporation
 - Vapor pressure
 - Latent heat of fusion
- 7) How can you define Buffer Solution with Example? How buffer solution work.?
- 8) Define standard electrode Potential? How is the standard electrode potential of copper determined.
- 9) What is meant by the term Rate of reaction and rate constant? Explain the effect of surface area of reactant and temperature on the rate of reaction.
- 10) Differentiate between the following:
 - *Diffusion and effusion
 - *Molar and Molal Solutions
 - *Lyman series and Balmer Series
 - crystalline and amorphous solid
- * Acidic and Basic salts
- *Exothermic and Endothermic reactions
- *Continuous and Line spectrum
- * Hydration and Hydrolysis
- 11) What is Orbital Hybridization? Explain the Shape of Ethene and ethyne molecules on the basis of Hybrid Orbital.
- 12) What is capillary action? Explain the following observation
 - Mercury form convex meniscus while water form concave.
 - Ink spread on blotting paper
- 13) Define and explain Activation Energy. Write note on any two of the following:
 - *Slow reaction *Fast reaction *Moderate reaction *Positive catalyst