

Paper Code

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ESKPIX-XXVI (I)
SSC-(P-I)
CHEMISTRY – 9th

Time Allowed: 3 Hrs

Marks: 65

Note: There are **Three Sections** in this paper i.e. A, B and C. Attempt Section A and return it to the Superintendent within the given time. No marks will be awarded for **Cutting, Erasing and Overwriting**.

Mobile Phone is strictly prohibited in Examination Hall.

Time: 15 Minutes

SECTION "A"

Marks: 12

Q.1. Choose the correct option and shade one of (A, B, C, D) in the given **Bubble Answer Sheet**.

- i. The branch of chemistry that deals with the study of all elements and compounds except hydrocarbons is:
Ⓐ Physical chemistry Ⓑ Inorganic chemistry Ⓒ Analytical chemistry Ⓓ Industrial chemistry
- ii. The formula that represents the actual number of atoms in a molecule is:
Ⓐ Empirical formula Ⓑ Structural formula Ⓒ Molecular formula Ⓓ General formula
- iii. Isotopes differ from one another mainly in the number of:
Ⓐ Protons Ⓑ Electrons Ⓒ Neutrons Ⓓ Valence electrons
- iv. Down a group in the periodic table, electronegativity generally:
Ⓐ Increases Ⓑ Decreases Ⓒ Remains constant Ⓓ Becomes zero
- v. The scientist who proposed the octet rule of valence was:
Ⓐ Rutherford Ⓑ Bohr Ⓒ G.N. Lewis Ⓓ Dalton
- vi. At room temperature, most ionic compounds exist as:
Ⓐ Solids Ⓑ Liquids Ⓒ Gases Ⓓ Plasmas
- vii. The factor that increases the rate of evaporation of a liquid is:
Ⓐ Decrease in temperature Ⓑ Increase in temperature Ⓒ Increase in external pressure Ⓓ Strong intermolecular forces
- viii. Molarity of a solution is defined as:
Ⓐ Number of grams of solute per dm³ of solution
Ⓑ Number of moles of solvent per dm³ of solution
Ⓒ Number of moles of solute per dm³ of solution
Ⓓ Number of molecules per dm³ of solution
- ix. The range of particle size in colloids is:
Ⓐ < 1nm Ⓑ 1-1000nm Ⓒ >1000nm Ⓓ Visible range
- x. The oxidation number of hydrogen in HCl is:
Ⓐ -1 Ⓑ 0 Ⓒ +1 Ⓓ +2
- xi. The following is essential in an electrolytic cell:
Ⓐ Voltmeter Ⓑ Ammeter Ⓒ Cathode and anode Ⓓ Transformer
- xii. The group of the periodic table to which Alkaline earth metals belong is:
Ⓐ Group IA Ⓑ Group IIA Ⓒ Group IIIA Ⓓ Group IVA

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