

SECTION-A

Note:

- 1) Attempting all MCQs is compulsory. This paper along with the OMR sheet must be returned to the superintendent after due time.
- 2) Fill the circle (A)(B)(C)(D), which one is correct with blue or black ball point in separate OMR Sheet like ●
- 3) If more than one circle in the OMR sheet is filled then no credit will be given to such answer.

i. Which one of the following is a lewis base?

- (A) HCl (B) AlCl₃ (C) BF₃ (D) F⁻

ii. The units of K_c for the reaction $\text{PCl}_3 + \text{Cl}_2 \rightleftharpoons \text{PCl}_5$ is.

- (A) mol.dm⁻³ (B) mol⁻¹.dm⁻³ (C) mol⁻¹.dm³ (D) mole.dm³

iii. Salts formed when OH⁻ ions of a base are partially neutralized by an acid are called.

- (A) Basic salts (B) Acidic salts (C) Neutral salts (D) All of these

iv. Natural gas is mainly composed of.

- (A) CH₄ (B) C₂H₈ (C) C₂H₆ (D) C₂H₂

v. A group of atoms that is formed when one hydrogen atom is removed from an alkane molecule is called.

- (A) Functional group (B) Alkyl radical (C) Alkane (D) Alkyne

vi. Substitution reaction is the characteristic of.

- (A) Alkynes (B) Alkenes (C) Alkanes (D) None of these

vii. Triglycerides are the building blocks of.

- (A) Proteins (B) Carbohydrates (C) Lipids (D) Vitamins

viii. The coldest region in the atmosphere is.

- (A) Troposphere (B) Stratosphere (C) Mesosphere (D) Thermosphere

ix. The density of water is maximum at.

- (A) -40°C (B) 40°C (C) -4°C (D) 4°C

x. All steps are used for the extraction of metals except.

- (A) Roasting (B) Smelting (C) Evaporation (D) Bessmirization

xi. Permanent hardness of water is removed by adding.

- (A) Washing soda (B) Soda lime (C) Caustic soda (D) Baking soda

xii. Which one of the following is a disaccharide?

- (A) Glucose (B) Fructose (C) Sucrose (D) Starch