# CBSE Class 12 Chemistry Answer Key 2025-26

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1. (C) $MnO_2$

2. (B) First-order reaction graph where $t_{1/2}$ is independent of initial concentration.

3. (B) 0.1 M $CaCl_2$ (Highest van’t Hoff factor, i = 3)

4. (D) $+1/2\ (\Delta[NH_3]/\Delta t)$

5. (C) 6 Faradays

6. (B) Cyclohexyl magnesium bromide

7. (A) 6

8. (C) $(CH_3)_3C–I$ and $C_2H_5–OH$

9. (C) 51% para, 47% meta, 2% ortho

10. (B) They have the same specific rotation (Not true)

11. (B) Sucrose

12. (D) p-hydroxyazobenzene

13. (A) Both true; reason is correct explanation

14. (A) Both true; reason is correct explanation

15. (D) Assertion false; reason true

16. (A) Both true; reason is correct explanation

17. Ethanol and Acetone Mixture

• Shows positive deviation from Raoult's Law.

• Addition of acetone breaks hydrogen bonding of ethanol.

• Forms minimum boiling azeotrope; boiling point decreases.

18. Coordination Chemistry

(a) IUPAC Names:

(i) [Ag(NH3)2][Ag(CN)2] – Diamminesilver(I) dicyanoargentate(I)

(ii) K3[Fe(C2O4)3] – Potassium trioxalatoferrate(III)

OR

(b)

(i) BaCl2 test: [Co(NH3)5Cl]SO4 gives white precipitate of BaSO4.

(ii) Chelate effect: Increased stability due to ring formation (e.g., [Cu(en)2]2+).

19. Haloarenes Reactivity

• Resonance gives partial double bond character to C–X bond.

• sp2 hybridised carbon makes bond shorter and stronger.

20. Chemical Kinetics

• Volume reduced to 1/3 $\rightarrow$ concentration becomes 3 times.

• New rate = 27 times original rate.

• Order of reaction remains unchanged.

21. Biomolecules Differentiation

(i) Acidic amino acids: More –COOH than –NH2 groups.

Basic amino acids: More –NH2 than –COOH groups.

(ii) Nucleoside = Sugar + Base.

Nucleotide = Sugar + Base + Phosphate group.