



Class 12 Chemistry | Aldehydes, Ketones And Carboxylic Acids

MCQ WORKSHEET • 15 questions • Choose one correct option • Suggested time: 25 minutes

1. IUPAC name of $\text{CH}_3\text{CH}_2\text{CHO}$ is:

- A. Propanal B. Propanoic acid
C. Propanone D. Propanol

2. Carbonyl carbon is usually:

- A. sp and neutral B. sp^3 and nucleophilic
C. sp^3 and nonpolar D. sp^2 and electrophilic

3. Which is most reactive toward nucleophilic addition?

- A. Methanal B. Propanone
C. Ethanal D. Butanone

4. Tollens' reagent gives a silver mirror with:

- A. Ethanal B. Propanone
C. Ethoxyethane D. Ethanol

5. Which compound gives the iodoform test?

- A. Benzaldehyde B. Propanone
C. Propanal D. Methanal

6. Which aldehyde undergoes Cannizzaro reaction?

- A. Benzaldehyde B. Propanal
C. Butanal D. Ethanal

7. Ethanal with dilute NaOH initially gives:

- A. Ethanoic acid B. Ethanol only
C. Butanone D. 3-Hydroxybutanal

8. Clemmensen reduction uses:

- A. Tollens reagent B. Zn(Hg)/conc. HCl
C. PCC D. NaBH_4 only

9. Wolff-Kishner reduction uses:

- A. $\text{NH}_2\text{NH}_2/\text{KOH}$, heat B. H_2O_2
C. Br_2/water D. Zn/HCl only

10. NaBH_4 reduction of propanone gives:

- A. Propan-2-ol B. Propan-1-ol
C. Propanoic acid D. Propane

11. Which reagent distinguishes ethanoic acid from ethanol by effervescence?

- A. FeSO_4 B. NaCl C. Br_2 in CCl_4 D. NaHCO_3

12. Which acid is strongest?

- A. $(\text{CH}_3)_2\text{CHCOOH}$ B. CH_3COOH
C. $\text{C}_2\text{H}_5\text{COOH}$ D. ClCH_2COOH

13. Sodium ethanoate heated with soda lime yields:

- A. Methanol B. Ethene C. Methane D. Ethane

14. Esterification of ethanoic acid with ethanol gives:

- A. Ethyl methanoate B. Ethyl ethanoate
C. Ethanal D. Methyl ethanoate

15. Which compound gives an orange/yellow precipitate with 2,4-DNP reagent?

- A. Ethoxyethane B. Propanone
C. Ethanoic acid D. Ethanol

ANSWER KEY — check after completing all 15 questions

1.A 2.D 3.A 4.A 5.B 6.A 7.D 8.B 9.A 10.A 11.D 12.D 13.C 14.B 15.B

Original exam-style practice • Reference notes: www.physics.guru/cbse-practice-papers/ • Not an official paper