

**Organic Chemistry Practice Exam v2 and Answers:**

Question 1: Which of the following compounds is an aldehyde?

- a) Ethanol
- b) Acetone
- c) Formaldehyde
- d) Acetic acid

Answer: c) Formaldehyde

Explanation: Formaldehyde is an example of an aldehyde. It has the functional group  $\text{-CHO}$ , where the carbon atom is bonded to a hydrogen atom and an oxygen atom.

Question 2: Which of the following functional groups is present in an ester?

- a)  $\text{-OH}$
- b)  $\text{-COOH}$
- c)  $\text{-COOR}$
- d)  $\text{-NH}_2$

Answer: c)  $\text{-COOR}$

Explanation: An ester contains the functional group  $\text{-COOR}$ , where R represents an alkyl or aryl group. It is formed by the reaction between a carboxylic acid ( $\text{-COOH}$ ) and an alcohol ( $\text{-OH}$ ).

Question 3: Which of the following reactions is an example of an elimination reaction?

- a) Hydrogenation
- b) Hydrolysis
- c) Substitution
- d) Dehydration

Answer: d) Dehydration

Explanation: Dehydration is an example of an elimination reaction. It involves the removal of water from a molecule, resulting in the formation of a double bond.

Question 4: Which of the following compounds is an aromatic hydrocarbon?

- a) Ethane
- b) Benzene
- c) Butyne

# Answers Modeling Chemistry U7 Empfrm Practice V2 0

**LL Leslie**

A decorative graphic consisting of a light blue horizontal bar with a rounded right end, and a red circular shape partially visible behind it.

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