

CHM102

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1. -OH is a functional group for which organic compound?

Ketone

--->> Alcohol

Base

Acid

2. What is the functional group of esters?

$\text{R}-\text{COO}-\text{R}'$

$\text{R}-\text{COOH}$

$\text{R}-\text{CHO}$

--->> RCOOR'

3. When a compound has a carbon-nitrogen single bond it is called?

Nitrile

Imine

Nitrite

--->> amine

4. A functional group can be defined as?

--->> An atom or group of atoms in a molecule which exhibit a characteristic chemical properties

An atom or group of atoms in a molecule which exhibit a characteristic physical properties

A group of atoms in a molecule which exhibit a characteristic chemical properties

An atom in a molecule which exhibit a characteristic chemical properties

5. Grouping organic compounds base on their functional groups makes it easier to

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--->> Chemical properties only

Physical properties only

Structural properties only

Physical and chemical properties

6. Choose the correct option that best indicate the hybrid orbitals type, bond length and bond angle for methane.

sp^3 , 154 pm and 109.5°

sp , 134 and 180°

--->> sp^2 , 134 pm and 120°

sp^3 , 134 pm and 120°

7. Choose the correct option that best indicate the hybrid orbitals type, bond length and bond angle for acetylene?

sp^2 , 134 pm and 120°

sp^3 , 154 pm and 190.5°

sp^2 , 120 pm and 180°

--->> sp , 120 pm and 180°

8. The bond energy $C\equiv C$ is equivalent to?

--->> 348 KJmol^{-1}

341 KJmol^{-1}

415 KJmol^{-1}

433 KJmol^{-1}

9. What is the functional group of aldehyde?

$-\text{COO}^-$

$-\text{C}=\text{O}$

--->> $-\text{CHO}$

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10. Indicate the corresponding bond resulting from sp^3 , sp^2 and sp hybridization

Triple bond, double bond and single bond.

--->> Single bond, double bond and triple bond.

Double bond, single bond and triple bond

Single bond, triple bond and double bond

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