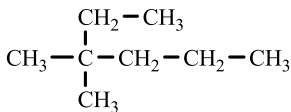


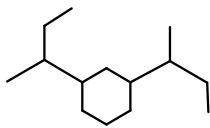
1. The functional group contained in the compound  $\text{CH}_2=\text{CH}_2$  is a(n)  
A. ester                      B. ketone                      C. alkene                      D. alcohol
2. An alkane with 7 carbon atoms contains \_\_\_\_\_ hydrogen atoms.  
A. 16                      B. 14                      C. 20                      D. 18



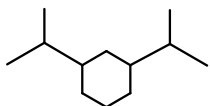
3. The IUPAC name of \_\_\_\_\_ is  
A. 2-ethyl-2-methylpentane                      B. 2-methyl-3-ethylpentane  
C. 2-ethyl-3-methylhexane                      D. 3,3-dimethylhexane

4. The formula of 1,2-diisopropylcyclohexane is

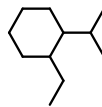
A.



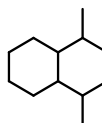
C.



B.



D.

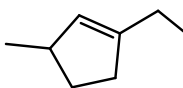


5. The reaction of propane with bromine is called?

- A. halogenation                      B. addition                      C. elimination                      D. combustion

6. The molecular formula of \_\_\_\_\_ fit the general formula ( $\text{C}_n\text{H}_{2n-2}$ ).

- A. alkynes                      B. alcohols                      C. alkenes                      D. alkanes



7. The name of \_\_\_\_\_ is

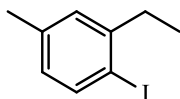
- A. 1-ethyl-4-methylcyclopentene                      B. 1-ethyl-3-methylcyclopentene  
C. 1-ethyl-3-methyl-1-cyclopentene                      D. 1-ethyl-3-methyl-2-cyclopentene

8. For which of the following is *cis-trans* isomerism possible?

- A. 1,2-dibromoethyne                      B. 1,1-dibromoethane                      C. 1,1-dibromoethene                      D. 1,2-dibromoethene

9. The product of the reaction ( $\text{CH}_3-\text{CH}=\text{CH}-\text{CH}_2-\text{CH}_2-\text{CH}_3 + \text{Br}_2$ ) is

- A.  $\text{CH}_3-\text{CHBr}-\text{CHBr}-\text{CH}_2-\text{CH}_2-\text{CH}_3$                       B.  $\text{CH}_3-\text{CHBr}_2-\text{CHBr}_2-\text{CH}_2-\text{CH}_2-\text{CH}_3$   
C.  $\text{CH}_2=\text{CHBr}-\text{CHBr}-\text{CH}_2-\text{CH}_2-\text{CH}_3$                       D.  $\text{CH}_3-\text{CHBr}=\text{CHBr}-\text{CH}_2-\text{CH}_2-\text{CH}_3$



10. The name of the compound \_\_\_\_\_ is

- A. 3-ethyl-4-iodo-1-methylbenzene                      B. 1-ethyl-2-iodo-5-methylbenzene  
C. 2-ethyl-1-iodo-4-methylbenzene                      D. 6-ethyl-1-iodo-4-methylbenzene