1. Which of the following compounds is most acidic?



1. Hydrogenation of cyclopropane gives;
2. Propane
3. Propene
4. Cyclopropane hydrat
5. Propyne
6. The IUPAC name of the following compound is



1. 1-butyne reacts with two moles of HBr to give



1. The characteristic reaction of alkynes is
2. Nucleophilic addition reaction
3. Elimination reaction
4. Electrophilic addition reaction
5. Free radical substitution reaction
6. Reaction of 1-hexyne with H2O in presence of H2SO4 and HgSO4 gives



1. Ozonoloysis of the following compound gives:





1. Reaction of alkenes with KMnO4 is an example of
2. Electrophilic substitution reaction.
3. Nucleophilic substitution reaction.
4. Oxidation reaction.
5. Free radical substitution reaction.



1. The major product for the following reaction is:



1. The product of the reaction shown below  is:



1. The type of hybridization of the selected carbon  is

a) sp b) sp2 c) sp3 d) sp3d

1. The structure of 5-Bromo-2-ethyl-3,4-dimethylhexene is:



1. What is the shape of acetylene molecule:
2. Tetrahedral
3. Linear
4. Trigonal planar
5. Pyramidal
6. Which of the following compounds has an ionic bond
7. HCl
8. Br2
9. CH3F
10. LiF
11. Which of the following compounds shows geometrical isomerism?
12. Methylacetylene
13. 2-methyl-1-butene
14. 2-Methyl-2-butene
15. 2-Butene
16. The hybridized orbital of C\* in the structure  is:



1. Which of the following molecular formula represent the structure of the molecule?



1. C8H18  b) C9H20 c) C10H20 d) C10H22



1. The IUPAC name of the following structure is:
2. 1-Ethy-3,3-dimethylcyclohexane
3. 1,1-Dimethyl-3-ethylcyclohexane
4. 3-Ethyl-1,1-dimethylcyclohexane
5. 1-Ethyl-5,5-dimethylcyclohexane



20) The main product of the following reaction: is:



* 1. The structural formula of the named compound 4-Ethyl-2,3,6-trimethylheptane is?



* 1. Which of the following is electrophile:

1. H2O
2. (CH3)3C+
3. CH3-
4. Ethene
   1. Which of the following compounds has the highest boiling point?
5. 2-Methylpentane
6. Hexane
7. 2,3-Dimethylbutane
8. Pentane
   1. The reaction of unknown compound X with methyl bromide gives propyne, then the X compound is;
9. Sodium acetylide
10. Ethene
11. Bromoacetylene
12. Dibromoethene
    1. The correct structural formula of trans-3-hexene:

a)  b) 

c)  d) 