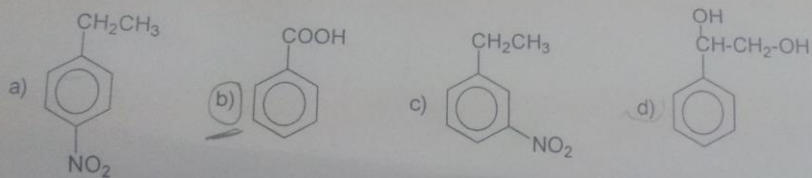
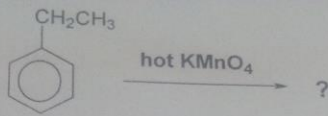
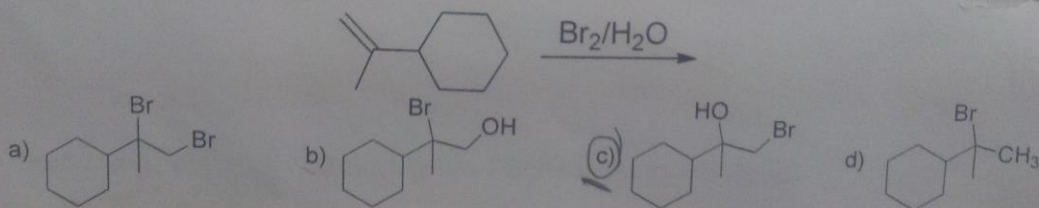


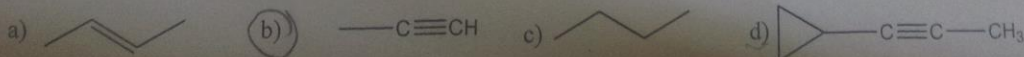
21- following reaction gives:



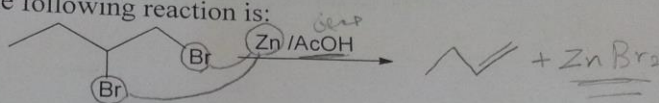
22- The major product of the reaction shown below is:



23- Which of the following compounds is more acidic:

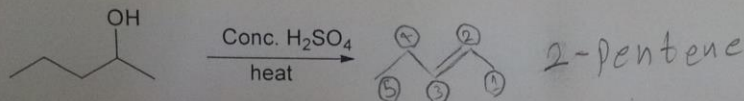


1- The product of the following reaction is:



- a) CC=CCBr b) CC=CC c) CC=CCBr d) CC(Br)C=CC

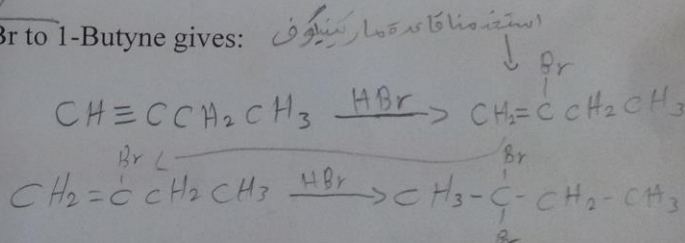
2- The major product of the following reaction is:



- a) CCCC=C b) CC=CC c) CC=CC d) CC(O)C=CC

3- The addition of 2 moles HBr to 1-Butyne gives:

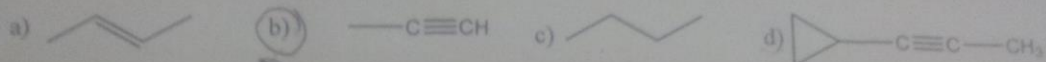
- a) 2,3-Dibromobutane
 b) 1,3-Dibromobutane
 c) 1,1-Dibromobutane
 d) 2,2-Dibromobutane



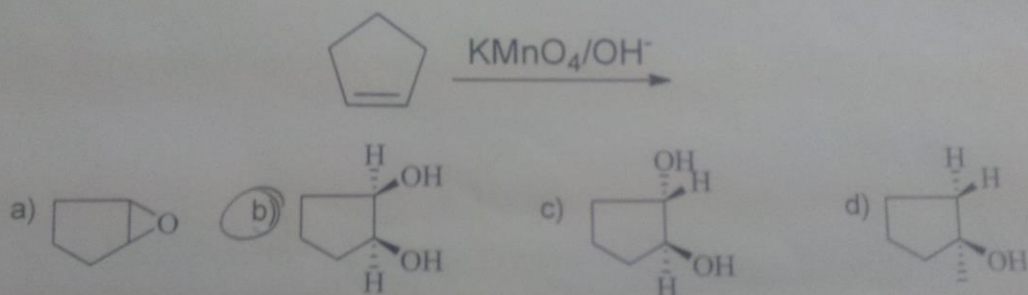
4- The shape of carbon-carbon double bond in alkenes is:

- a) Tetrahedral b) Trigonal *and planer* c) Linear d) Octahedral

23- Which of the following compounds is more acidic:



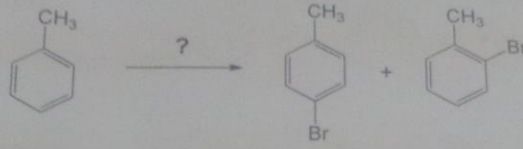
24- The product of the reaction shown below is:



25- Which of the following molecules has an ionic bond?



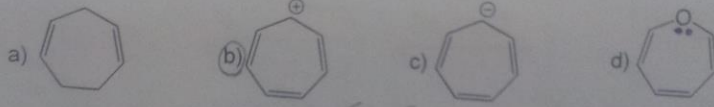
17-The reagent needed for the following transformation is:



- a) $\text{Br}_2 / \text{FeBr}_3$ → تطبيق البرزين
- b) Br_2
- c) $\text{Br}_2 / \text{light}$ → تكافؤ للمعزج
- d) $\text{NaBr} / \text{H}_2\text{SO}_4$ → الألكيل والبرزين

18-Which of the following compounds has an aromatic character?

$4n+2=6$
 $4n=6-2$
 $4n=4$
 $n=1$



$4n+2=6$ ✓

$4n+2=8$

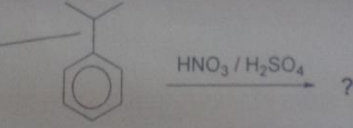
$4n=6$

$n=1.5$

not aromatic

19-One of the expected product of the following reaction is:

الألكيل بنزين
 90



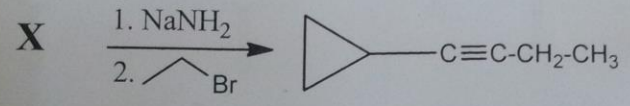
- a)
- b)
- c)
- d)

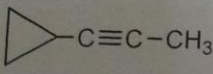
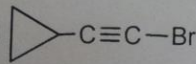
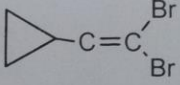
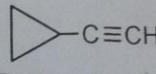
20-The major product of the following reaction is:

4- The shape of carbon- carbon double bond in alkenes is:

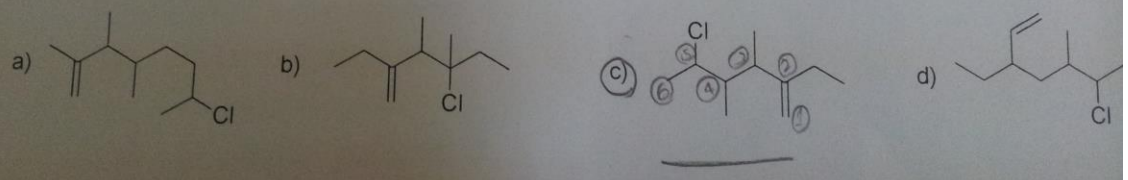
- a) Tetrahedral (b) Trigonal *and planer* c) Linear d) Octahedral

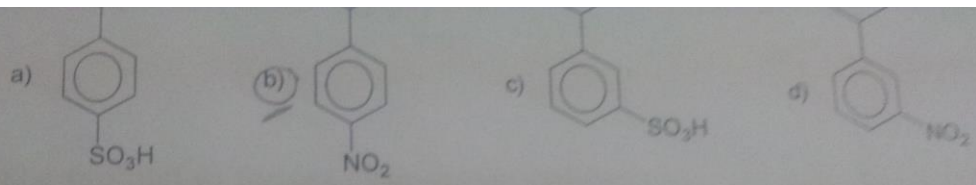
5- The unknown compound X is:



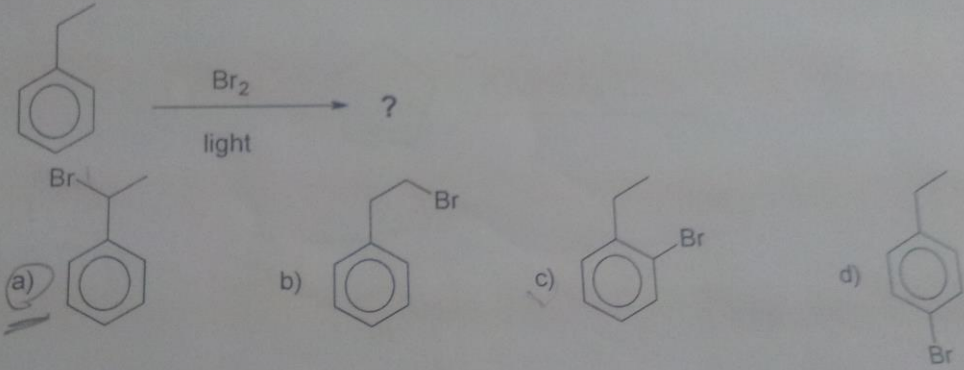
- a)  b)  c)  d) 

6- The structure of 5-Chloro-2-ethyl-3,4-dimethyl-1-hexene is:

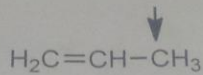




20-The major product of the following reaction is:

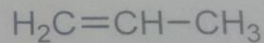


11 - The type of hybridization of the selected carbon is:



- a) sp b) sp^2 c) sp^3 d) sp^3d

12- The number of sigma bonds in



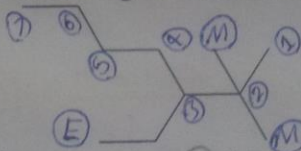
is:

- a) 6 b) 7 c) 8 d) 9

13- The number of isomers in the molecular formula C_5H_{12} is:

- a) 1 b) 2 c) 3 d) 4

14- The IUPAC name of the following formula is:



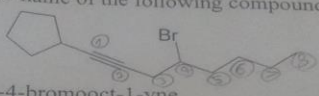
- a) 5-Ethyl-6,6-dimethylheptane b) 3-Ethyl-2,2-dimethylheptane
c) 2,2-Dimethyl-3-ethylheptane d) 6,6-Dimethyl-5-ethylheptane

15- Alkanes from C_1 to C_4 at room temperature are:

...ID SPEAK

Margaret
SERIES CONST
Marguerite A
Lawrence J. Z
VOCABULAR
Cheryl Boyd

7- The correct IUPAC name of the following compound is:

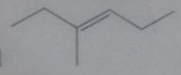


- a) 1-Cyclopentyl-4-bromooct-1-yne
- b) 8-Cyclopentyl-5-bromooct-1-yne
- c) 4-Bromo-1-cyclopentyl-1-octyne
- d) 2-Bromo-3-cyclopentyl-1-octyne

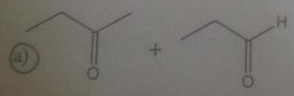
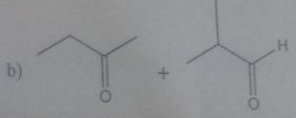
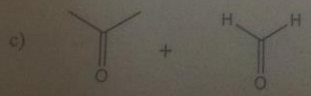
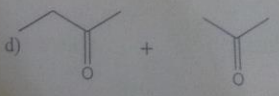
8- Which of the following is an activating group in an electrophilic aromatic substitution?

- a) $-\text{CH}(\text{CH}_3)_2$
- b) $-\text{NO}_2$
- c) $-\text{SO}_3\text{H}$
- d) $-\text{Cl}$

9- Ozonolysis of the following compound

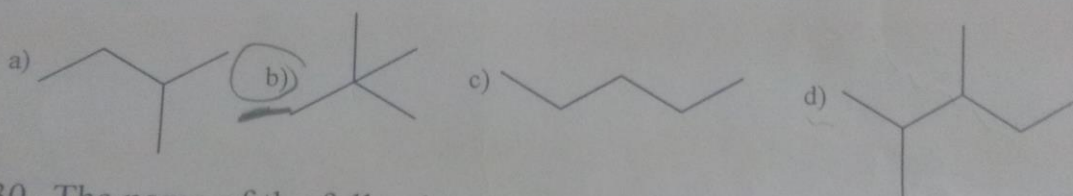


gives:

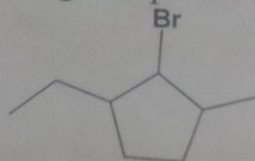
- a) 
- b) 
- c) 
- d) 

10- The name of the following compound is:

29- The compound with the **least** boiling point is:

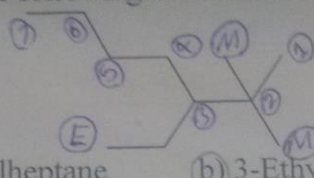


30- The name of the following compound is:



- a) 1-Ethyl-3-methyl, 2-bromocyclopentane
- b) 1-Bromo-2-methyl-5-ethylcyclopentane
- c) 1-Bromo- 2-ethyl- 5-methylcyclopentane
- d) 1-Methyl- 2-Bromo- 3-ethylcyclopentane

14- The IUPAC name of the following formula is:

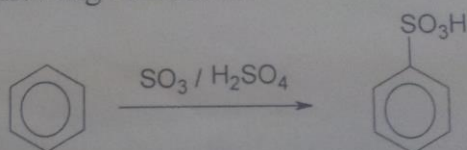


- a) 5-Ethyl-6,6-dimethylheptane b) 3-Ethyl-2,2-dimethylheptane
c) 2,2-Dimethyl-3-ethylheptane d) 6,6-Dimethyl-5-ethylheptane

15- Alkanes from C_1 to C_4 at room temperature are:


- a) wax like b) liquids c) solids d) gases

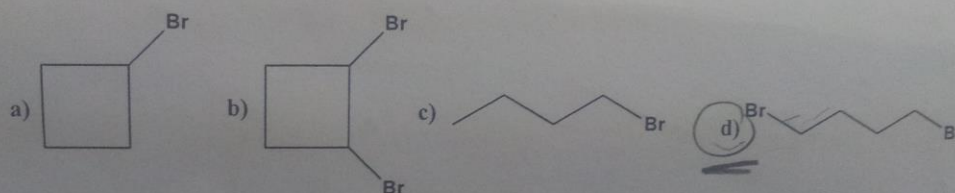
16- The type of the following reaction is:



- a) Nucleophilic substitution
b) Electrophilic substitution
c) Nucleophilic addition
d) Electrophilic addition

- 26- Reaction of alkenes with HBr is an example of
- a) Electrophilic substitution reaction.
 - b) Nucleophilic substitution reaction.
 - c) Electrophilic addition reaction.**
 - d) Free radical addition reaction.

27- Reaction of  $\xrightarrow{\text{Br}_2 / \text{light}}$ gives:

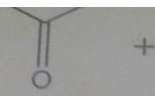


28- Reaction of alkanes with **halogens / light** is an example of

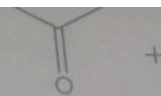
- a) Free radical substitution reaction.**
- b) Nucleophilic substitution reaction.
- c) Electrophilic addition reaction.
- d) Elimination reaction.

29- The compound with the **least** boiling point is:

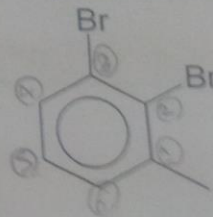
c)



d)



10- The name of the following compound is:



- a) 2,3-Dibromobenzene
- b) 1,2-Dibromotoluene
- c) 2,3-Dibromophenol
- d) 2,3-Dibromotoluene