

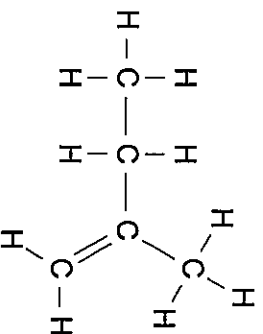
Total Time allowed: 25 minutes

Name: _____

Part A – Multiple Choice

Place a cross through the letter representing the best answer in your answer booklet.

1. Correctly name this structural formula:



- a) 2-methyl-1-butene
- b) 2-methyl-2-butene
- c) 3-methyl-3-propene
- d) 3-methyl-1-propene

2. Which of the following compounds contains a double bond?

- a) $\text{CH}_3\text{CH}_2\text{CH}_2\text{CH}_3$
- b) CH_3CCCH_3
- c) $\text{CH}_3\text{CHCHCH}_3$
- d) CHBr_2CF_3

3. Ethene is usually more reactive than ethane because ethene:

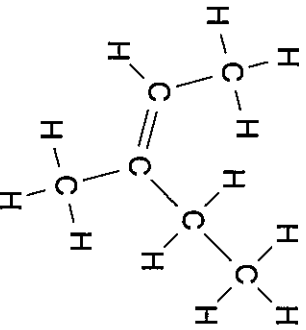
- a) Contains fewer hydrogen atoms
- b) Has a higher percentage of carbon atoms
- c) Reacts with bromine to form 1,2-dibromoethane
- d) Is an unsaturated hydrocarbon

4. The compound 2-butene is best represented by the formula:

- a) CH_3CCCH_3
- b) $\text{CH}_2\text{CHCH}_2\text{CH}_3$
- c) $\text{CH}_3\text{CH}_2\text{CH}_2\text{CH}_3$
- d) $\text{CH}_3\text{CHCHCH}_3$

5. Name the following compounds.

(3 Marks)

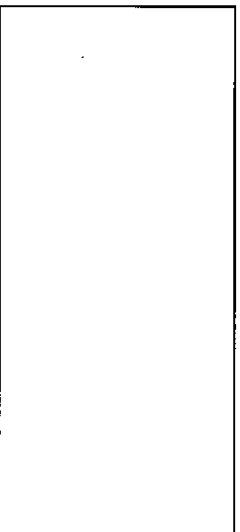
$ \begin{array}{ccccccc} & & \text{CH}_3 & & & & \text{CH}_3 \\ & & & & & & \\ \text{CH}_3 & - & \text{CH} & - & \text{CH} & - & \text{CH}_2 & - & \text{CH} & - & \text{CH}_3 \\ & & & & & & & & & & \\ & & & & \text{CH}_3 & & & & & & \end{array} $	
	
$ \begin{array}{ccccccc} & \text{H} & & \text{H} & & \text{H} & & \text{H} \\ & & & & & & & \\ \text{Cl} & - & \text{C} & - & \text{C} & - & \text{C} & - & \text{C} & - & \text{H} \\ & & & & & & & \\ & \text{H} & & \text{H} & & \text{Br} & & \text{H} \end{array} $	

6. Draw the following compounds indicating all atoms present. (4 Marks)

cis-2-butene	
1,3-diethylcyclopentene	
1, 1, 3-tribromo-2-pentene	
3-ethyl-2,4-dimethylheptane	

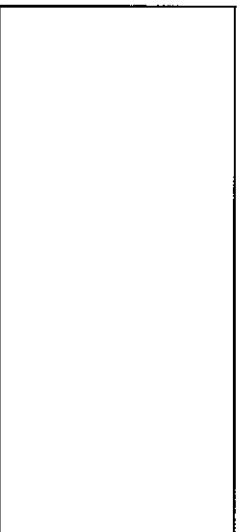
7. Give the structure and IUPAC name for products formed in the following reactions. which occur when the following are mixed, naming the products: (6 marks)

a) Propane and limited bromine water in the presence of light



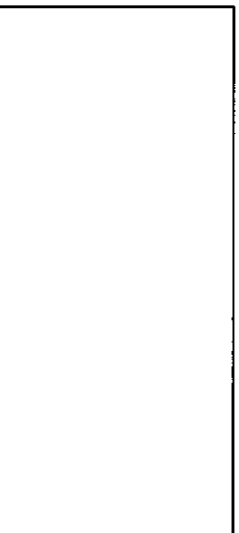
Name: _____

b) Propene and chlorine gas.



Name: _____

c) 2-butene and excess hydrogen in the presence of platinum



Name: _____

8. Draw and name 2 isomers with the formula $C_4H_6Cl_2$. One of the isomers must be cyclic
(3 marks)

Name:
Name:

9. Write a balanced equation for the reaction between pentane and excess oxygen.

(2 marks)

End Of Test