

Name \_\_\_\_\_  
Sign \_\_\_\_\_

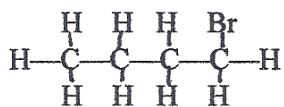
Name \_\_\_\_\_  
Print (bc I can't read your signatures)

*totally incorrect*

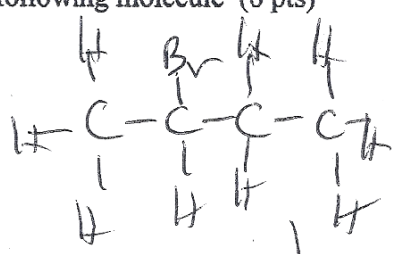
*unrelated - fully incorrect*

**Please show work** for full credit and partial credit on all questions

1. a. Show one constitutional isomer of the following molecule (6 pts)



*same*  
 $\text{Br}-\text{C}-\text{C}-\text{C}-\text{C}$   
4 carbon alkane = butane  
Br = bromo



*same*  
 $\text{C}-\text{C}-\text{C}-\text{C}-\text{Br}$

*green*  
*attempt -1*  
*BA -3*

b. name the original molecule above (not the constitutional isomer that you drew above, don't forget to number your molecule). (4 pts)

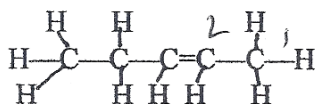
*1-bromobutane*

*2-bromobutane*

*-1/2 attempt*

*BA -2*

2. Name the following (5 C alkane is pentane) (don't forget to number your molecule) (4 pts)

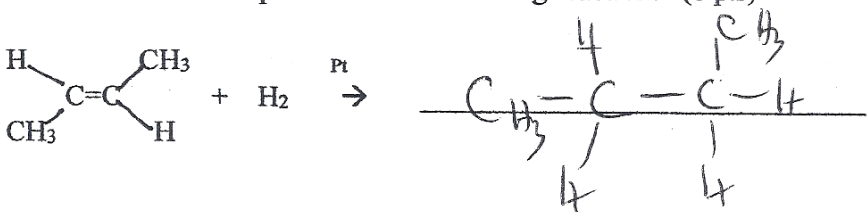


*alkene*  
*2-pentene*

*attempt -1/2*

*BA -2*

3. Show the product of the following reaction. (6 pts)



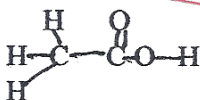
*attempt -1*

*BA -3*

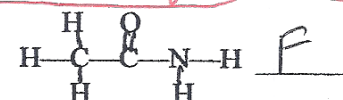
**Extra Credit** (4 pts)

Fill in the blank with the letter of the functional group. (A)alkyl halide (B)alcohol (C)carboxylic acid (D)ester (E)amine (F)amides

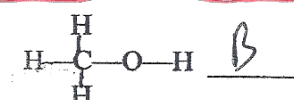
*BA = bad attempt NA = not attempt*



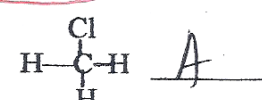
*C*



*F*



*B*



*A*

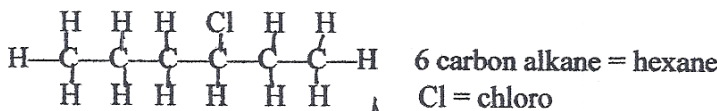
- Alkyl halides R-X
- Amines R-NH<sub>2</sub>
- Alcohols R-OH
- Carboxylic acids R-C(=O)OH
- Amides R-C(=O)NH<sub>2</sub>
- Esters R-C(=O)OR'

Name Key  
Sign \_\_\_\_\_

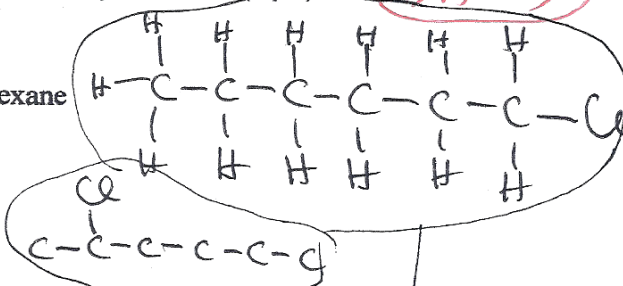
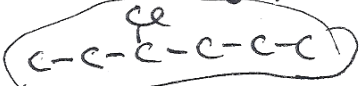
Name Unrelated  
Print (bc I can't read your signatures) fully incorrect

Please show work for full credit and partial credit on all questions

1. a. Show one constitutional isomer of the following molecule (6 pts)



6 5 4 3 2 1



b. name the original molecule above (not the constitutional isomer that you drew above, don't forget to number your molecule). (4 pts)

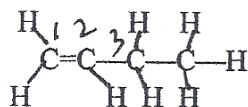
3-chlorohexane

smallest #

attempt - 1/2

1-chlorohexane  
2-chlorohexane

2. Name the following (4 C alkane is butane) (don't forget to number your molecule) (4 pts)



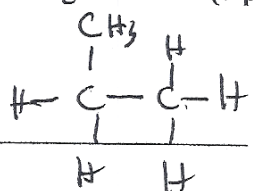
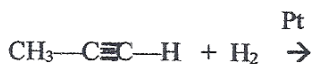
alkene

1-butene

attempt - 1/2

BA - 2

3. Show the product of the following reaction. (6 pts)



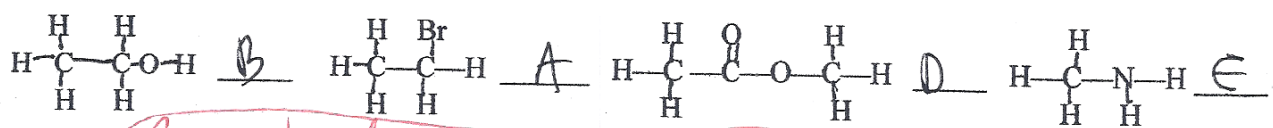
attempt - 1

BA - 3

Extra Credit (4 pts)

Fill in the blank with the letter of the functional group. (A)alkyl halide (B)alcohol (C)carboxylic acid (D)ester (E)amine (F)amides

Alkyl halides R-X    Amines R-NH<sub>2</sub>    Alcohols R-OH    Carboxylic acids R-C(=O)-OH    Amides R-C(=O)-NHR'    Esters R-C(=O)-OR'



BA = bad attempt NA = not attempt

Name Key

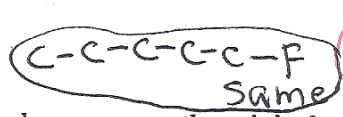
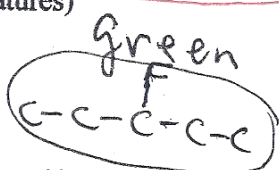
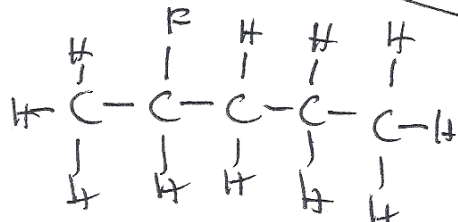
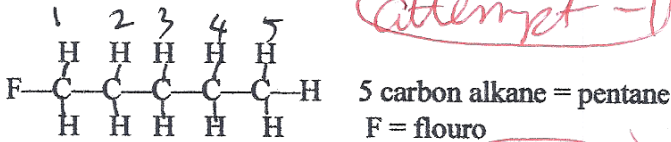
Name \_\_\_\_\_

Sign \_\_\_\_\_

Print (bc I can't read your signatures)

Please show work for full credit and partial credit on all questions

1. a. Show one constitutional isomer of the following molecule (6 pts)



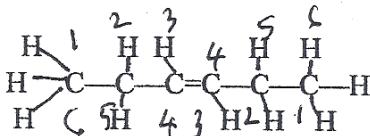
b. name the original molecule above (not the constitutional isomer that you drew above, don't forget to number your molecule). (4 pts)

1-fluoropentane

2-fluoropentane

3-fluoropentane

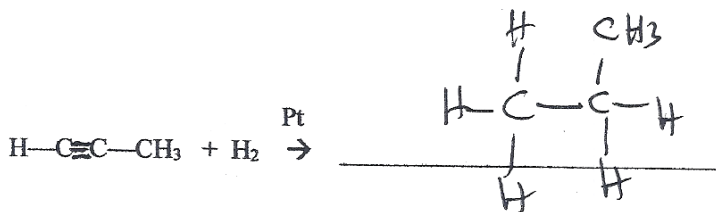
2. Name the following (6 C alkane is hexane) (don't forget to number your molecule) (4 pts)



hexane → alkene

3-hexene

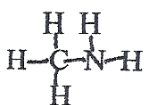
3. Show the product of the following reaction. (6 pts)



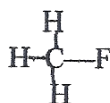
Extra Credit (4 pts)

Fill in the blank with the letter of the functional group. (A)alkyl halide (B)alcohol (C)carboxylic acid (D)ester (E)amine (F)amides

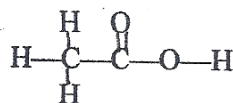
- Alkyl halides R-X
- Amines R-NH<sub>2</sub>
- Alcohols R-OH
- Carboxylic acids R-C(=O)-OH
- Amides R-C(=O)-NH<sub>2</sub>
- Esters R-C(=O)-OR'



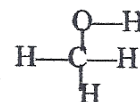
E



A



C



B

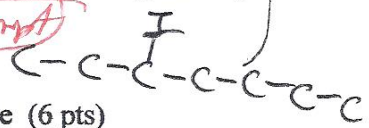
Totally incorrect - fully incorrect

Physical Science (PSC 102) Fall 18 Dr. Hahn MWF 11 am Quiz V form B-10/24 W Exam #

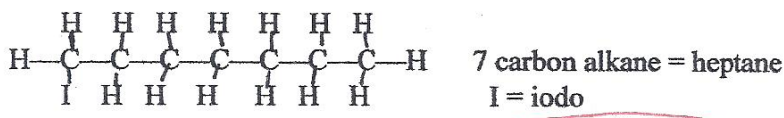
Name Key (unrelated) Name 3-iodoheptane  
 Sign \_\_\_\_\_ Print (bc I can't read your signatures)

BA = bad attempt NA = not attempt

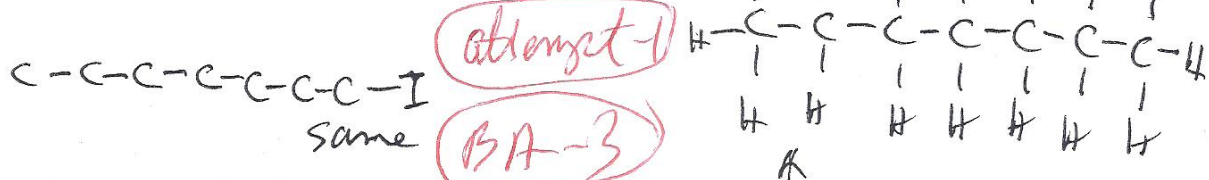
Please show work for full credit and partial credit on all questions



1. a. Show one constitutional isomer of the following molecule (6 pts)



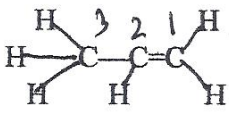
2 more



b. name the original molecule above (not the constitutional isomer that you drew above, don't forget to number your molecule). (4 pts)

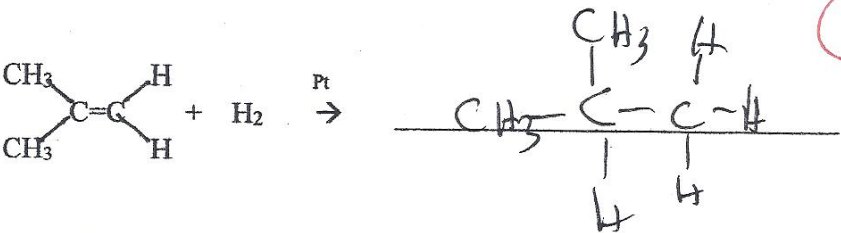
1-iodoheptane 2-iodoheptane  
-1/2 attempt  
BA -2

2. Name the following (3 C alkane is propane) (don't forget to number your molecule) (4 pts)



~~propane~~ alkene attempt -1/2  
 1-propene BA = -2

3. Show the product of the following reaction. (6 pts)



attempt -1  
BA = -3

Extra Credit (4 pts)

Fill in the blank with the letter of the functional group. (A)alkyl halide (B)alcohol (C)carboxylic acid (D)ester (E)amine (F)amides

Alkyl halides R-X    Amines R-NH<sub>2</sub>    Alcohols R-OH    Carboxylic acids R-C(=O)OH    Amides R-C(=O)NH<sub>2</sub>    Esters R-C(=O)OR'

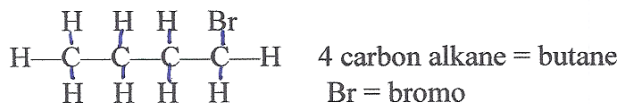


Name \_\_\_\_\_ Name \_\_\_\_\_  
 Sign \_\_\_\_\_ Print (bc I can't read your signatures)

**Please show work** for full credit and partial credit on all questions

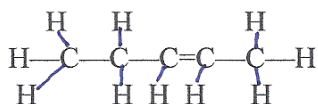
*green*

1. a. Show one constitutional isomer of the following molecule (6 pts)



- b. name the original molecule above (not the constitutional isomer that you drew above, don't forget to number your molecule). (4 pts)

2. Name the following (5 C alkane is pentane) (don't forget to number your molecule) (4 pts)

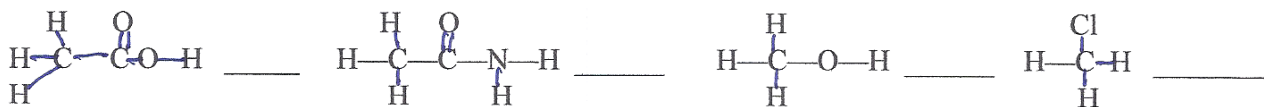


3. Show the product of the following reaction. (6 pts)



**Extra Credit** (4 pts)

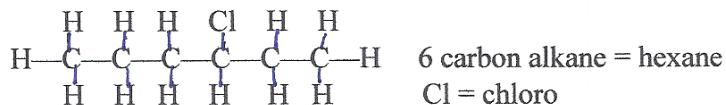
Fill in the blank with the letter of the functional group. (A)alkyl halide (B)alcohol (C)carboxylic acid (D)ester (E)amine (F)amides



Name \_\_\_\_\_ Name \_\_\_\_\_  
 Sign \_\_\_\_\_ Print (bc I can't read your signatures)

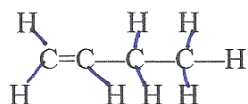
**Please show work** for full credit and partial credit on all questions

1. a. Show one constitutional isomer of the following molecule (6 pts)

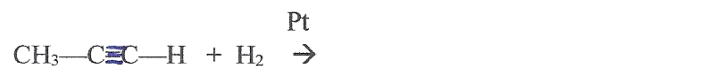


b. name the original molecule above (not the constitutional isomer that you drew above, don't forget to number your molecule). (4 pts)

2. Name the following (4 C alkane is butane) (don't forget to number your molecule) (4 pts)

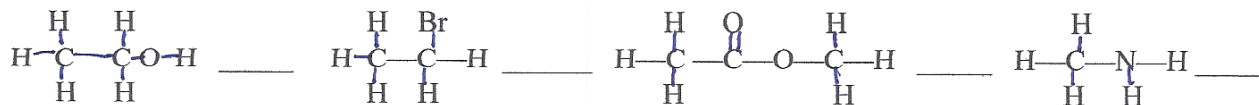


3. Show the product of the following reaction. (6 pts)



**Extra Credit** (4 pts)

Fill in the blank with the letter of the functional group. (A)alkyl halide (B)alcohol (C)carboxylic acid (D)ester (E)amine (F)amides

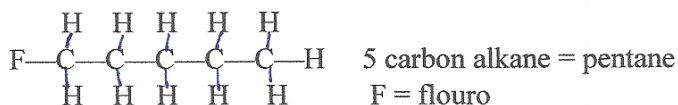


Name \_\_\_\_\_ Name \_\_\_\_\_  
 Sign \_\_\_\_\_ Print (bc I can't read your signatures)

*green*

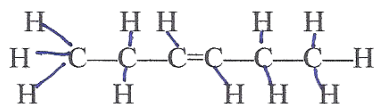
**Please show work** for full credit and partial credit on all questions

1. a. Show one constitutional isomer of the following molecule (6 pts)



- b. name the original molecule above (not the constitutional isomer that you drew above, don't forget to number your molecule). (4 pts)

2. Name the following (6 C alkane is hexane) (don't forget to number your molecule) (4 pts)

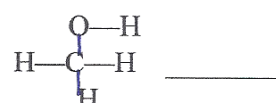
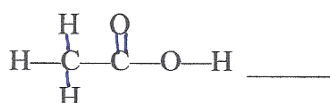
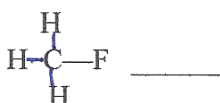
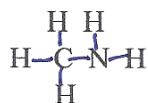


3. Show the product of the following reaction. (6 pts)



**Extra Credit** (4 pts)

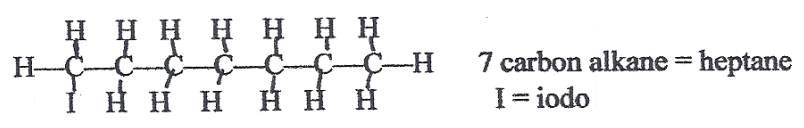
Fill in the blank with the letter of the functional group. (A)alkyl halide (B)alcohol (C)carboxylic acid (D)ester (E)amine (F)amides



Name \_\_\_\_\_ Name \_\_\_\_\_  
 Sign \_\_\_\_\_ Print (bc I can't read your signatures)

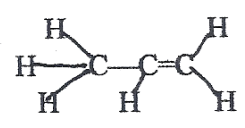
**Please show work** for full credit and partial credit on all questions

1. a. Show one constitutional isomer of the following molecule (6 pts)



b. name the original molecule above (not the constitutional isomer that you drew above, don't forget to number your molecule). (4 pts)

2. Name the following (3 C alkane is propane) (don't forget to number your molecule) (4 pts)



3. Show the product of the following reaction. (6 pts)



**Extra Credit** (4 pts)

Fill in the blank with the letter of the functional group. (A)alkyl halide (B)alcohol (C)carboxylic acid (D)ester (E)amine (F)amides

Alkyl halides R-X
Amines R-NH<sub>2</sub>
Alcohols R-OH
Carboxylic acids R-C(=O)OH
Amides R-C(=O)NH<sub>2</sub>
Esters R-C(=O)OR'

