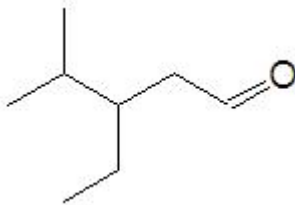

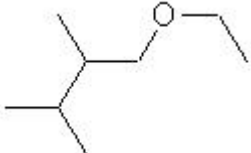
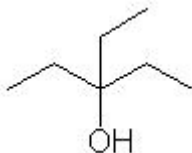
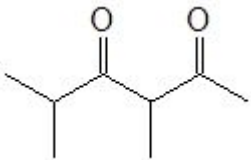
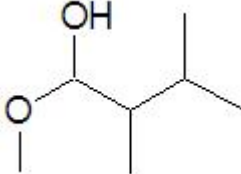
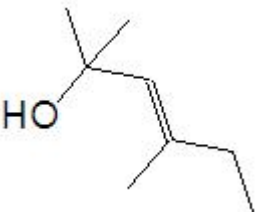
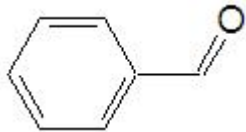
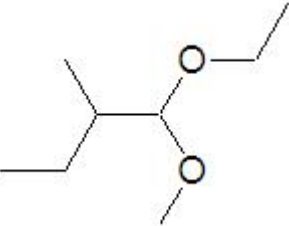
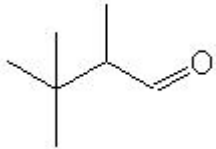


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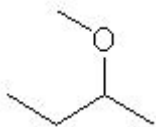

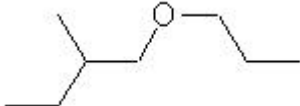
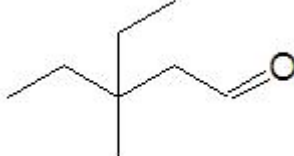
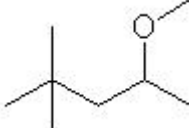
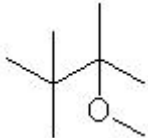
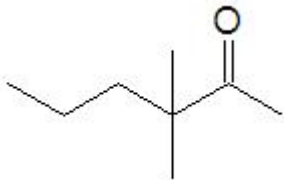
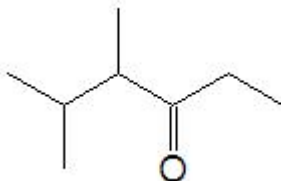
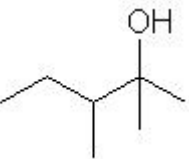
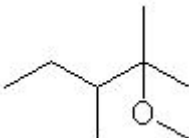
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Date: _____

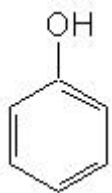
1. Give the IUPAC name of the following molecules

(a) 	(b) 
(c) 	(d) 
(e) 	(f) 
(g) 	(h) 
(i) 	(j) 

2. Give the IUPAC name of the following molecules

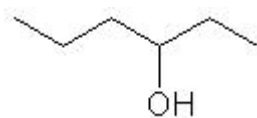
(a) 	(b) 
(c) 	(d) 
(e) 	(f) 
(g) 	(h) 
(i) 	(j) 

3. Give the IUPAC name of the following molecules



(a)

3(a) _____



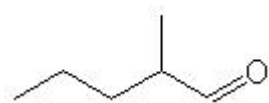
(b)

3(b) _____



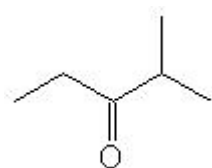
(c)

3(c) _____



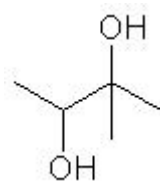
(d)

3(d) _____



(e)

3(e) _____



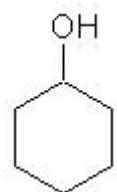
(f)

3(f) _____



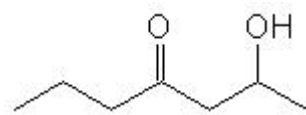
(g)

3(g) _____



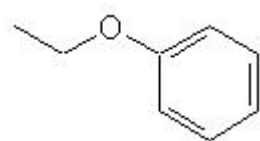
(h)

3(h) _____



(i)

3(i) _____



(j)

3(j) _____

4. Draw the following organic molecules:

(a) 2-ethoxy-2-methylpropane

(b) 3,4-dimethyl-1-pentanol

(c) 2,4-dimethylhexanal

(d) 2,2-dimethyl-3-pentanone

(e) phenol

(f) 1-hydroxy-1-butoxyethane

(g) 2,2,3,3-tetramethylbutanal

(h) 5-methyl-2-heptanone

(i) 1,2-butanediol

(j) 3-hexynal

5. Draw the following organic molecules:

(a) 3-heptanol

(b) 3-pentanone

(c) 2-methyl-2-pentanol

(d) 2-ethyl-1-pentanol

(e) 2-methoxy-3-methylpentane

(f) 3-ethyl-4-methylpentanal

(g) 2,2-dimethyl-3-hexanone

(h) 3-methoxy-3-ethylpentane

(i) 3-ethyl-2-methylpentanal

(j) 2,4-dimethyl-2-pentanol

6. Draw the following organic molecules:

(a) Benzaldehyde

(b) 2-methyl-3-phenylbutanal

(c) cyclopentanone

(d) Primary Alcohol

(e) Secondary Alcohol

(f) Tertiary Alcohol

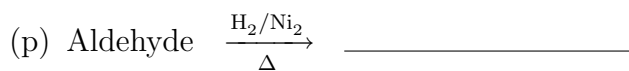
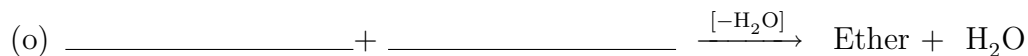
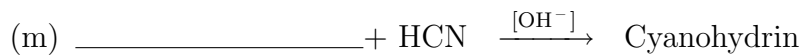
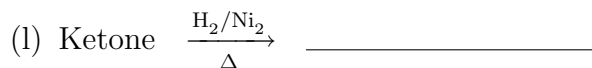
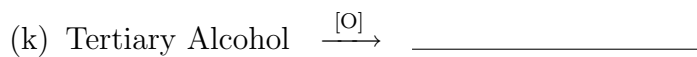
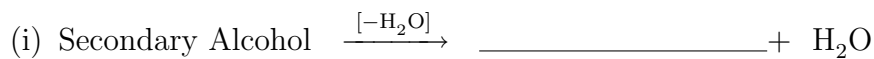
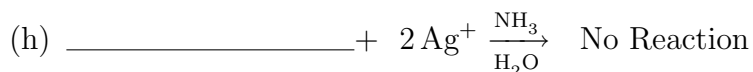
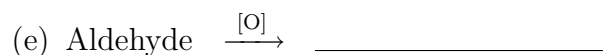
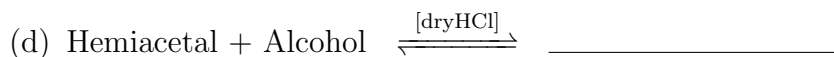
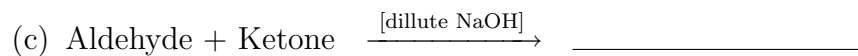
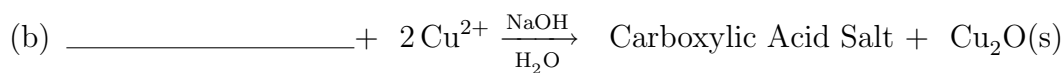
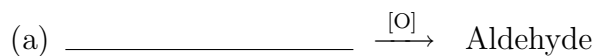
(g) Hemiacetal

(h) Acetal

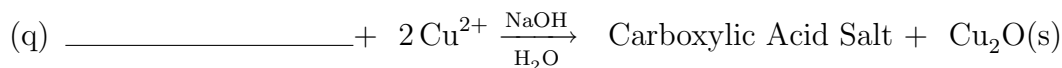
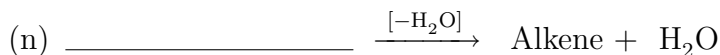
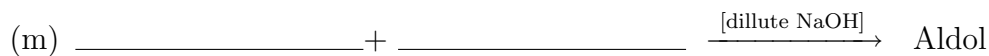
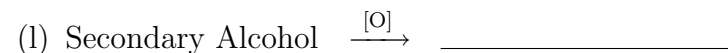
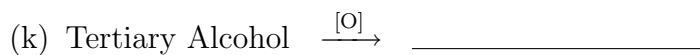
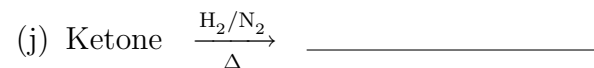
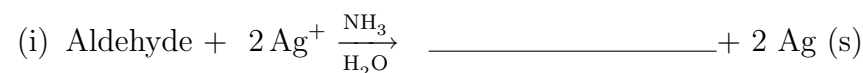
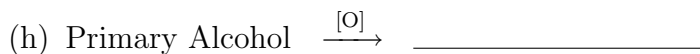
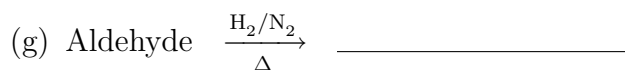
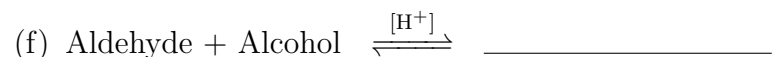
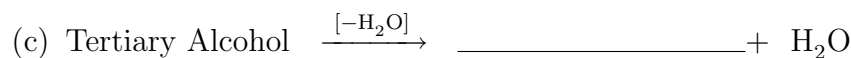
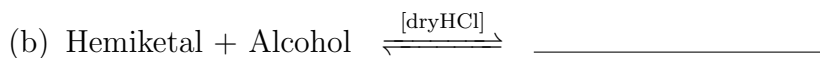
(i) Hemiketal

(j) Ketal

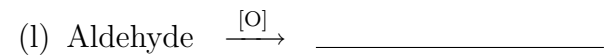
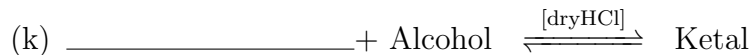
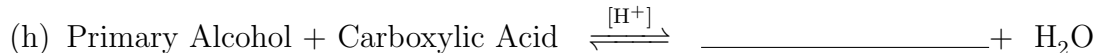
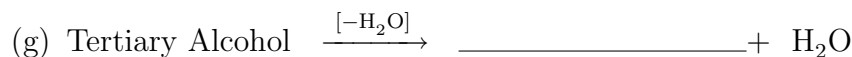
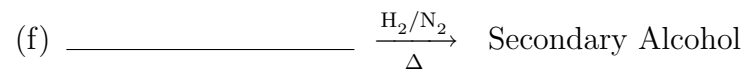
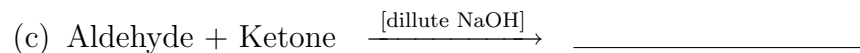
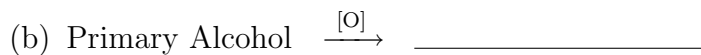
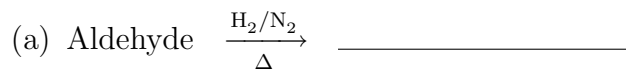
7. Fill in the class of compound for each missing product(s) or reactant(s). If no reaction occurs place a NR in the blank.



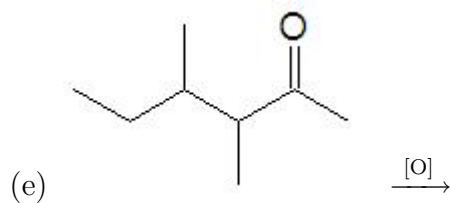
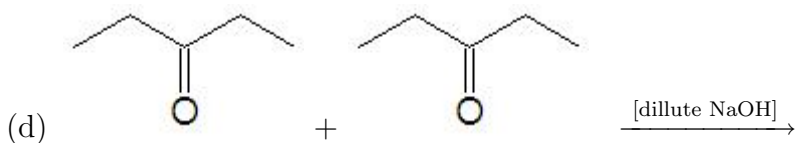
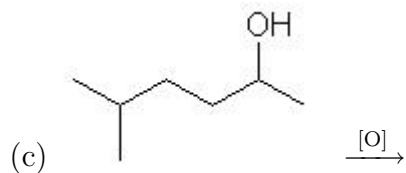
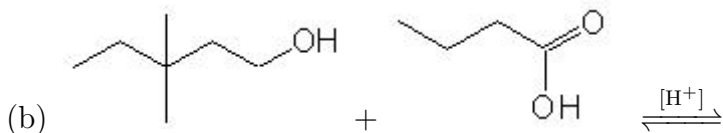
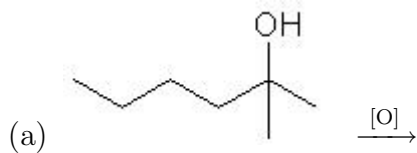
8. Fill in the class of compound for each missing product(s) or reactant(s). If no reaction occurs place a NR in the blank.



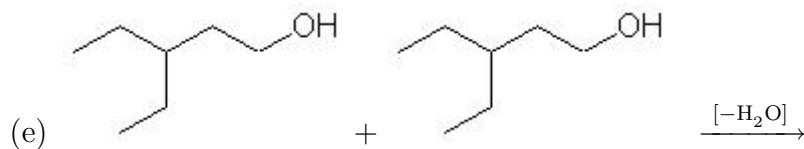
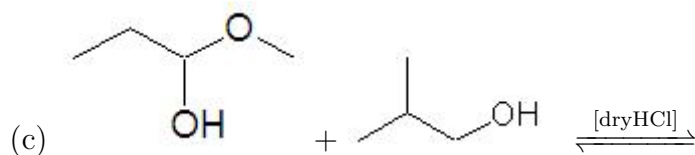
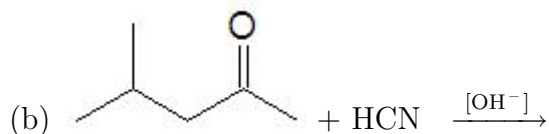
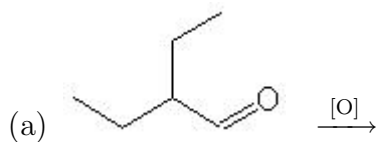
9. Complete the following reactions by filling in the missing reactants or products. If No Reaction occurs write NR. You may find it helpful to write the type of reaction or draw structures, please feel free too.



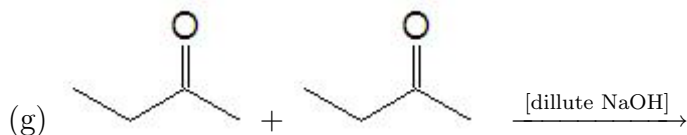
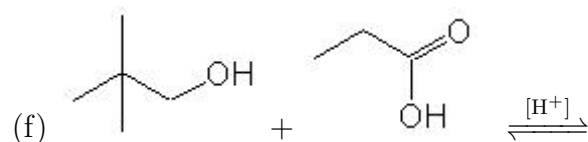
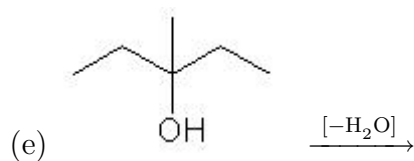
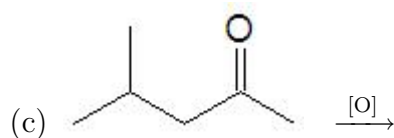
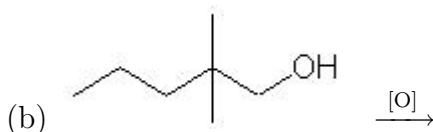
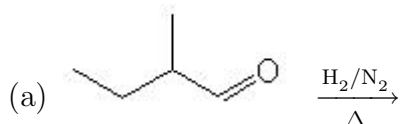
10. Complete the following reactions by drawing the structure of the product(s). If no reaction occurs write "NR" in the space provided. Half credit will be awarded if you label the class of compound for both the reactants and products and tell what class of reaction occurs (ie the reaction mechanism).



11. Complete the following reactions by drawing the structure of the product(s). If no reaction occurs write "NR" in the space provided. Half credit will be awarded if you label the class of compound for both the reactants and products and tell what class of reaction occurs (ie the reaction mechanism).



12. Complete the following reactions by drawing the structure of the product(s). If no reaction occurs write "NR" in the space provided. Half credit will be awarded if you label the class of compound for both the reactants and products.



13. Complete the following reactions by filling in the missing reactants or products. If No Reaction occurs write NR. You may find it helpful to write the type of reaction, the class of the reactants or products, or draw structures, please feel free too.

