

EXERCISE 11

Chem 100

(Due date _____)

10 points

Name _____
(last) (first)

Lecture Section # _____ Instructor _____

A. In column I, write the letter corresponding to the class of organic compounds to which the given compound belongs.

(A) primary alcohol

(B) secondary alcohol

(C) tertiary alcohol

(D) ether

(E) aldehyde

(F) ketone

(G) carboxylic acid

(H) ester

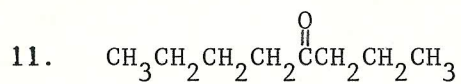
(J) primary amine

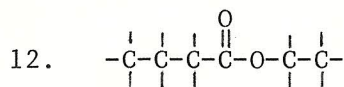
In column II, write the correct IUPAC name for the compound.

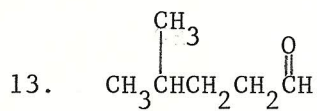
	I	II
1. $\begin{array}{c} \text{O} \\ \\ -\text{C}-\text{C}-\text{C}-\text{C}- \\ \quad \quad \quad \end{array}$	_____	_____
2. $\text{CH}_3\text{CH}_2\text{CH}_2\text{CH}_2\text{CH}_2\text{OH}$	_____	_____
3. $\begin{array}{c} \text{-N-} \\ \\ -\text{C}-\text{C}-\text{C}-\text{C}-\text{C}-\text{C}- \\ \quad \quad \quad \quad \quad \end{array}$	_____	_____
4. $\begin{array}{c} \quad \quad \\ -\text{C}-\text{C}-\text{O}-\text{C}- \\ \quad \quad \end{array}$	_____	_____
5. $\begin{array}{c} \text{O} \\ \\ \text{HO}-\text{C}-\text{C}-\text{C}-\text{C}- \\ \quad \quad \end{array}$	_____	_____
6. CH_3OCCH_3	_____	_____
7. $\begin{array}{c} \text{NH}_2 \\ \\ \text{CH}_3\text{CHCH}_3 \end{array}$	_____	_____
8. $\begin{array}{c} \text{O} \\ \\ -\text{C}-\text{C}-\text{C}-\text{C}-\text{C}-\text{C}-\text{C}- \\ \quad \quad \quad \quad \quad \end{array}$	_____	_____
9. $\begin{array}{c} \quad \quad \\ -\text{C}-\text{C}-\text{O}-\text{C}-\text{C}-\text{C}- \\ \quad \quad \end{array}$	_____	_____
10. $\begin{array}{c} \\ -\text{C}- \\ \\ -\text{C}-\text{C}-\text{C}-\text{C}-\text{C}-\text{OH} \\ \quad \quad \quad \quad \end{array}$	_____	_____

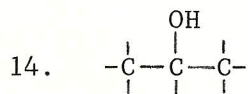
I

II









B. Write the full structural formulas for the following organic compounds.

propanoic acid	3-methylhexanal
2-methoxybutane	propyl methanoate
2-butanol	3-pentanone