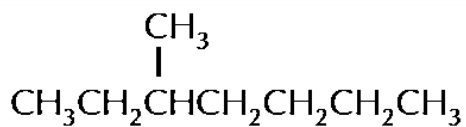


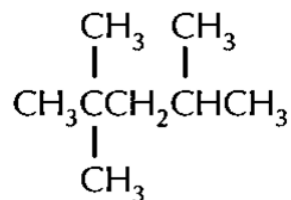
Quiz (Revision on Nomenclature and Writing Formulae)

1. Give the systematic names of the following compounds:

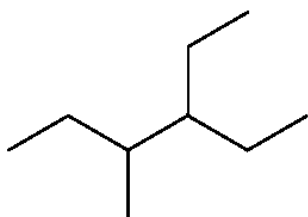
(a)



(b)



(c)



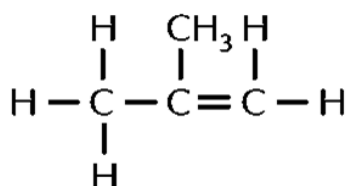
2. Write the structural formulae for

(a) 3-ethyl-2-methylheptane

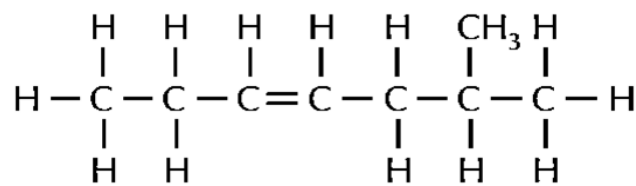
(b) 2,3-dimethylpentane

3. Give the systematic names of the following compounds:

(a)



(b)



(c)



4. Write the structural formulae for

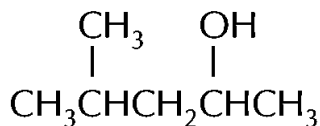
(a) pent-2-ene

(b) 3-methylbut-1-ene

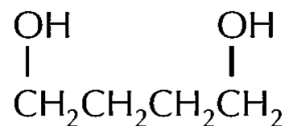
(c) buta-1,3-diene

5. Give the systematic names of the following compounds:

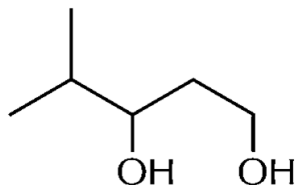
(a)



(b)



(c)

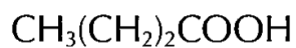


6. Write the structural formulae for:

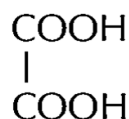
- (a) 2-methylpropan-2-ol
 (b) 4-methylhexane-1,3,6-triol
 (c) 2,3-dimethylbutan-1-ol

7. Give the systematic names of the following compounds:

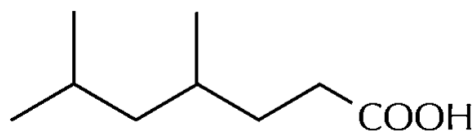
(a)



(c)



(b)

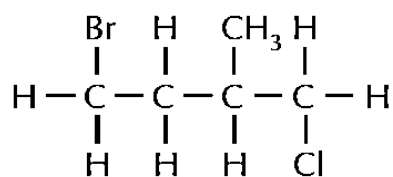


8. Write the structural formulae for

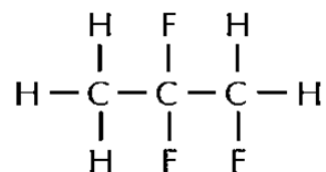
- (a) 4-methylhexanoic acid
 (b) butanedioic acid

9. Give the systematic names of the following compounds:

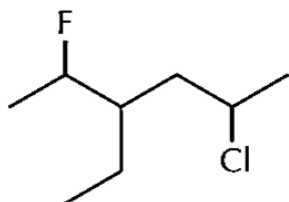
(a)



(b)



(c)



10. Write the structural formulae for

- (a) 3-bromo-2,3-dichlorohexane
 (b) 1-chloro-2-iodo-3-methylbutane

Suggested Answer

- 3-methylheptane
 - 2,2,4-trimethylpentane
 - 3-ethyl-4-methylhexane

- $$\begin{array}{cccccccc}
 & \text{H} & \text{CH}_3 & \text{CH}_2\text{CH}_3 & \text{H} & \text{H} & \text{H} & \text{H} \\
 & | & | & | & | & | & | & | \\
 \text{H} & -\text{C} & -\text{C} & -\text{C} & -\text{C} & -\text{C} & -\text{C} & -\text{C}-\text{H} \\
 & | & | & | & | & | & | & | \\
 & \text{H} & \text{H} & \text{H} & \text{H} & \text{H} & \text{H} & \text{H}
 \end{array}$$

- $$\begin{array}{cccccc}
 & \text{H} & \text{CH}_3 & \text{CH}_3 & \text{H} & \text{H} \\
 & | & | & | & | & | \\
 \text{H} & -\text{C} & -\text{C} & -\text{C} & -\text{C} & -\text{C}-\text{H} \\
 & | & | & | & | & | \\
 & \text{H} & \text{H} & \text{H} & \text{H} & \text{H}
 \end{array}$$

- methylpropene
 - 6-methylhept-3-ene
 - Hexa-1,4-diene

- $$\begin{array}{cccccc}
 & \text{H} & \text{H} & \text{H} & \text{H} & \text{H} \\
 & | & | & | & | & | \\
 \text{H} & -\text{C} & -\text{C} & =\text{C} & -\text{C} & -\text{C}-\text{H} \\
 & | & & & | & | \\
 & \text{H} & & & \text{H} & \text{H}
 \end{array}$$

- $$\begin{array}{cccc}
 & \text{H} & \text{H} & \text{CH}_3 & \text{H} \\
 & | & | & | & | \\
 \text{H} & -\text{C} & =\text{C} & -\text{C} & -\text{C}-\text{H} \\
 & & & | & | \\
 & & & \text{H} & \text{H}
 \end{array}$$

- $$\begin{array}{cccc}
 & \text{H} & \text{H} & \text{H} & \text{H} \\
 & | & | & | & | \\
 \text{H} & -\text{C} & =\text{C} & -\text{C} & =\text{C}-\text{H}
 \end{array}$$

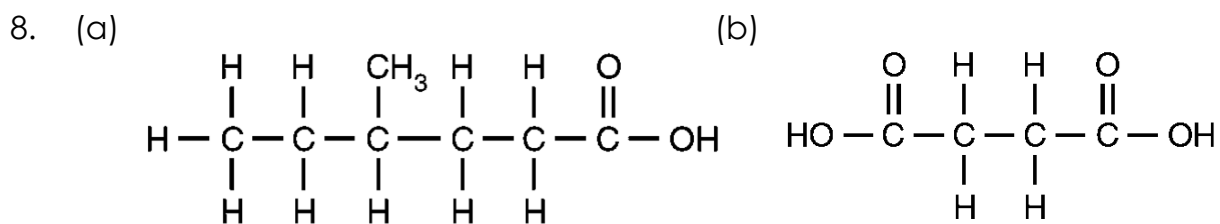
- 4-methylpentan-2-ol
 - Butane-1,4-diol
 - 4-methylpentane-1,3-diol

- $$\begin{array}{cccc}
 & \text{H} & \text{OH} & \text{H} \\
 & | & | & | \\
 \text{H} & -\text{C} & -\text{C} & -\text{C}-\text{H} \\
 & | & | & | \\
 & \text{H} & \text{CH}_3 & \text{H}
 \end{array}$$

- $$\begin{array}{cccccc}
 & \text{OH} & \text{H} & \text{OH} & \text{H} & \text{H} & \text{OH} \\
 & | & | & | & | & | & | \\
 \text{H} & -\text{C} & -\text{C} & -\text{C} & -\text{C} & -\text{C} & -\text{C}-\text{H} \\
 & | & | & | & | & | & | \\
 & \text{H} & \text{H} & \text{H} & \text{CH}_3 & \text{H} & \text{H}
 \end{array}$$

- $$\begin{array}{cccc}
 & \text{OH} & \text{CH}_3 & \text{CH}_3 & \text{H} \\
 & | & | & | & | \\
 \text{H} & -\text{C} & -\text{C} & -\text{C} & -\text{C}-\text{H} \\
 & | & | & | & | \\
 & \text{H} & \text{H} & \text{H} & \text{H}
 \end{array}$$

7. (a) Butanoic acid
 (b) 4,6-dimethylheptanoic acid
 (c) Ethanedioic acid



9. (a) 4-bromo-1-chloro-2-methylbutane
 (b) 1,2,2-trifluoropropane
 (c) 5-chloro-3-ethyl-2-fluorohexane

