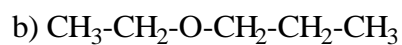
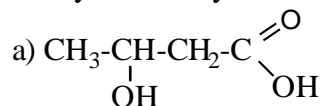


1. Identify the family of each of the following compounds:



2. Write structural formulas for the following compounds:

a) 3-chloro-2-methylheptanal

a) 3-methyl-4-hexene-2-ol

3. Which of the following are nonsaponifiable lipids?

a) triacylglycerols

b) oils

c) sphingomyelins

d) steroids

e) terpenes

f) sphingolipids

g) glycolipids

h) prostoglandins

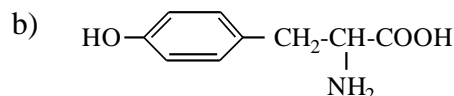
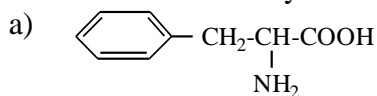
i) waxes

j) leukotrienes

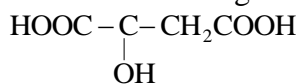
k) plasmalogens

4. Write the equation showing triacylglycerol from glycerol and oleic, palmitic and stearic acids.

5. Point to the formula of tyrosine



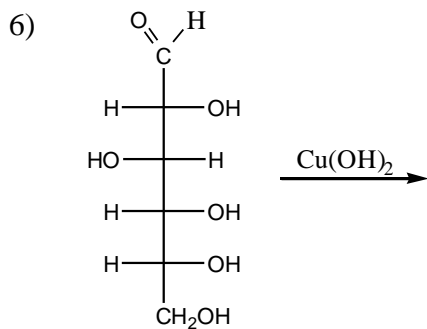
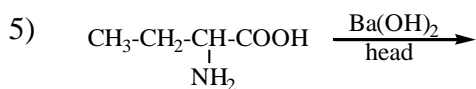
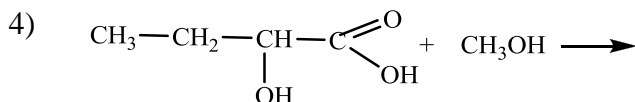
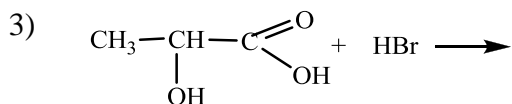
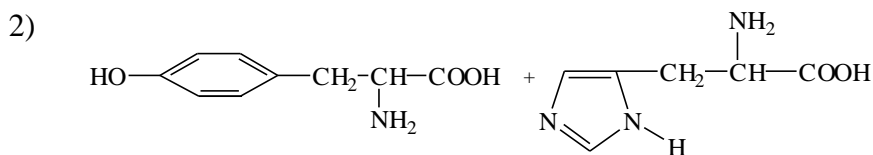
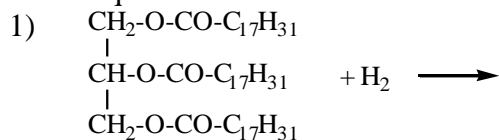
6. Name the following compound:



7. Write the formula of guanine.

8. What are heterocyclic compounds?

9. Give the equation for each of the following reactions. If there is no reaction, state "no reaction".



7) Write the equation for the digestion (hydrolysis) of Gly – Ala – Ser

