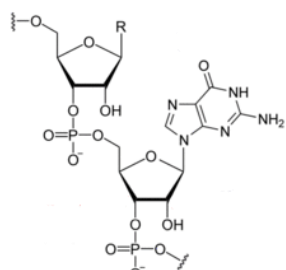
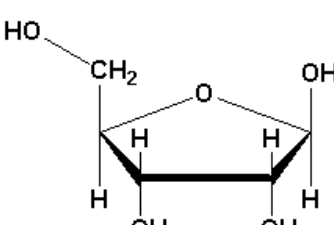
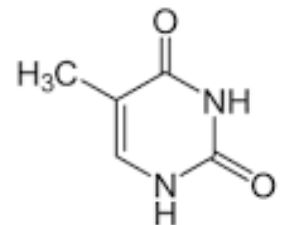
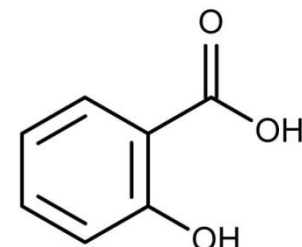
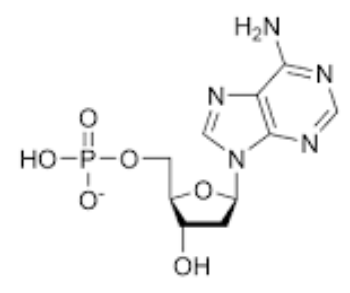
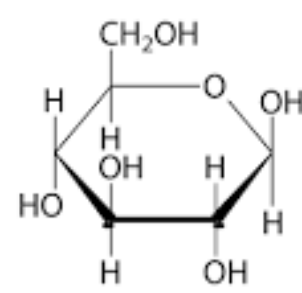
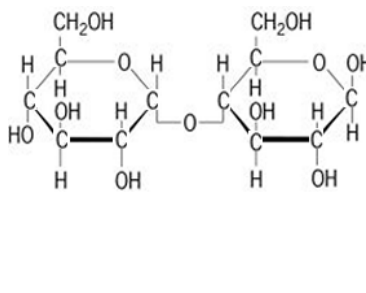
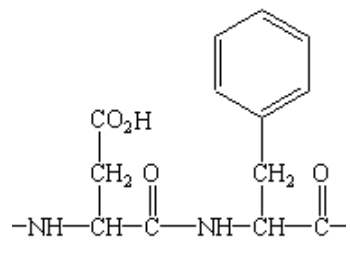
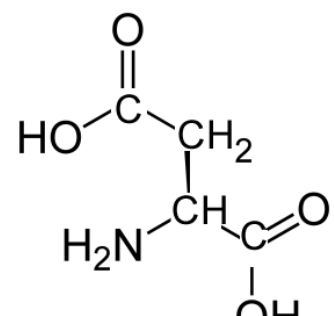
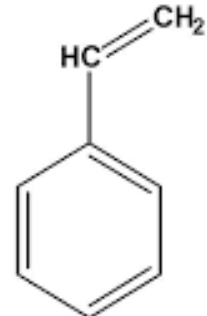


<p>A</p> $\text{C}_{13}\text{H}_{27}-\text{C}\begin{matrix} \text{O} \\ \parallel \\ \text{O}-\text{H} \end{matrix}$	<p>B</p> 	<p>C</p> $\text{C}_{17}\text{H}_{27}-\text{C}\begin{matrix} \text{O} \\ \parallel \\ \text{O}-\text{H} \end{matrix}$
<p>D</p> $\text{C}_{17}\text{H}_{29}-\text{C}\begin{matrix} \text{O} \\ \parallel \\ \text{O}-\text{CH}_3 \end{matrix}$	<p>E</p> 	<p>F</p> $\text{C}_{17}\text{H}_{29}-\text{C}\begin{matrix} \text{O} \\ \parallel \\ \text{O}-\text{C}_5\text{H}_9 \end{matrix}$
<p>G</p> 	<p>H</p> 	<p>I</p> $\begin{array}{c} \text{H} \\ \\ \text{H}-\text{C}-\text{OH} \\ \\ \text{H}-\text{C}-\text{OH} \\ \\ \text{H}-\text{C}-\text{OH} \\ \\ \text{H} \end{array}$
<p>J</p> 	<p>K</p> 	<p>L</p> 
<p>M</p> 	<p>N</p> 	<p>O</p> 

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- a) Which molecules are the product of a condensation reaction?
A B C D E F G H I J K L M N O
- b) Which molecules are possible products of the hydrolysis of a saturated triglyceride.?
A B C D E F G H I J K L M N O
- c) Which molecules can be used directly as an industrial renewable energy source?
A B C D E F G H I J K L M N O
- d) Which molecules can be found in DNA?
A B C D E F G H I J K L M N O
- e) Which molecule can undergo addition polymerisation?
A B C D E F G H I J K L M N O
- f) Which molecule can act as a buffer?
A B C D E F G H I J K L M N O
- g) 0.001 mole of which molecule reacts with 0.001 mole of NaOH and 0.480 grams of Br₂
A B C D E F G H I J K L M N O
- h) Which molecule was formed from a condensation polymerisation reaction?
A B C D E F G H I J K L M N O
- i) Which molecule is a monomer of DNA but not RNA?
A B C D E F G H I J K L M N O
- j) Which molecule can form a negative charged polymer?
A B C D E F G H I J K L M N O
- k) Upon hydrolysis which molecule produces an unsaturated fatty acid and a saturated alcohol?
A B C D E F G H I J K L M N O
- l) Upon hydrolysis which molecule produces an unsaturated fatty acid and an unsaturated alcohol?
A B C D E F G H I J K L M N O
- m) Which molecule will react with methanol to produce a saturated methyl ester?
A B C D E F G H I J K L M N O

n) Which molecule is a reactant for anaerobic fermentation?

A B C D E F G H I J K L M N O

o) Which molecule can be broken down by enzyme action into a renewable energy source?

A B C D E F G H I J K L M N O

p) What is the systematic name of molecule "N"?

q) What two molecules, not shown on page 1, formed M?

r) Give a balanced chemical equation, using structural formulae, of the reaction between molecule H and ethanoic acid.

s) What mass of compound C will react exactly with 0.64 grams of Br_2 ?

t) Which molecule has a similar ^{13}C NMR to the one shown on the right?

