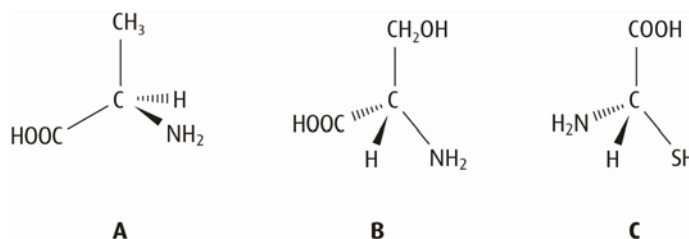
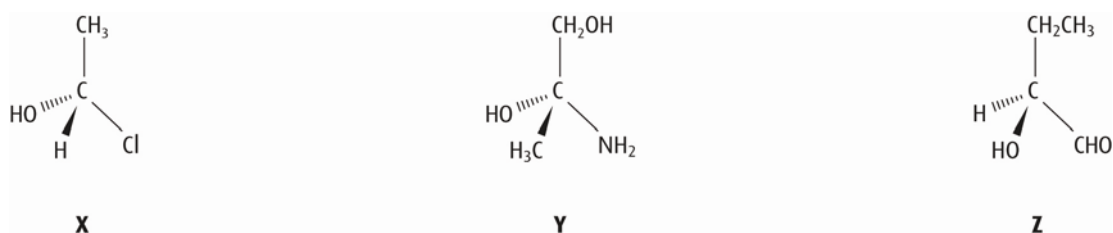


AHL Worksheet – Option F

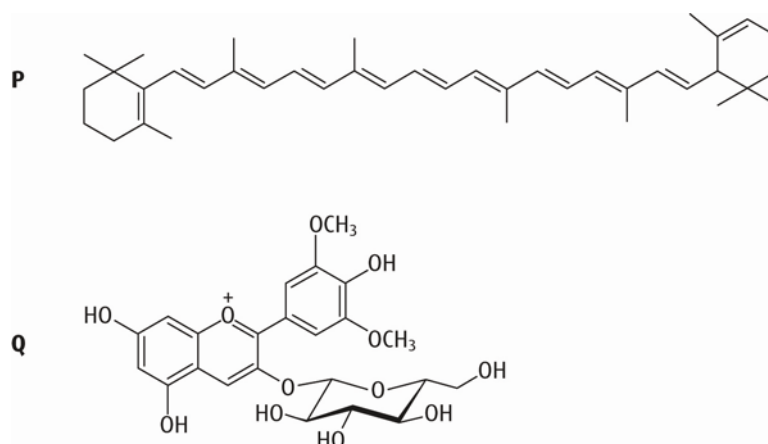
- 1 Write a series of equations to illustrate the free-radical mechanism for oxidative rancidity. Use RH to represent the fatty acid. [6]
- 2 State the **three** main types of antioxidants and give an example of each. [6]
- 3 Classify each of the following amino acids as D or L. [3]



- 4 a Classify the chiral centre in each of the following molecules as R or S. [3]



- b For each of the molecules in part a, draw the other enantiomer. [3]
- 5 The structures of two compounds responsible for colour in food are shown below.



- a State to which classes of compound P and Q belong. [2]
 - b Explain in terms of light why P and Q are coloured. [2]
 - c Explain in terms of the structures of the molecules why P and Q are coloured. [2]