Section B
Answer either question B4 or B5.

B4 A café loyalty card is shown below. Customers are given a sticker when they buy a drink and once they have six stickers attached to the loyalty card they get a free drink.

(a) On the centre lines below construct a full size view of the loyalty card by:
   (i) completing the drawing of the regular hexagon with length of side 60; [2]
   (ii) dividing the hexagon into six equal triangles; [3]
   (iii) adding a Ø20 circle in the middle of each triangle. [7]

(b) A flow chart is printed on the back of the loyalty card to show customers what they have to do to get a free drink. Complete the flow chart below by adding four more stages. [9]

   Start

   Buy a drink

   (c) 10 000 loyalty cards are printed by lithography.
      (i) Name the commercial process used to cut out the loyalty cards.

      ……………………………………………………………………………………………………………………………… [1]

      (ii) Give three examples of where ICT could be used in the design and manufacture of the loyalty card.

      1. ……………………………………………………………………………………………………………………………… [1]

      2. ……………………………………………………………………………………………………………………………… [1]

      3. ……………………………………………………………………………………………………………………………… [1]
A sketch of a package for biscuits is shown below.

elliptical shaped window
major axis 140
minor axis 60

(a) Complete the scale 1:2 development (net) of the package for the biscuits below by:

(i) constructing the elliptical shaped window on the given top surface; [7]

(ii) drawing the remaining surfaces and glue tabs of the development (net). [9]

(b) The fold in flap needs to lock in place without the use of glue. In the space below use sketches and notes to show a design for a locking flap. [3]

(c) Complete the table below to explain three pieces of information that are printed on the package for the biscuits.

<table>
<thead>
<tr>
<th>Symbol</th>
<th>Explanation</th>
</tr>
</thead>
<tbody>
<tr>
<td><img src="symbol.png" alt="Symbol" /></td>
<td>This means the card used to make the package can be recycled. [2]</td>
</tr>
<tr>
<td>BEST BEFORE 01-01-2016</td>
<td><img src="best_before.png" alt="Symbol" /></td>
</tr>
<tr>
<td>200g</td>
<td><img src="200g.png" alt="Symbol" /></td>
</tr>
</tbody>
</table>