Section A

Answer all questions in this section.

A logo for a holiday company is shown below.

A1 Complete the full size view of the logo in the space provided to the right by drawing:

(a) the setting sun design; [6]
(b) the lower half hexagon and horizontal lines; [4]
(c) the SUNNY lettering. [3]

A2 (a) The logo is to be created and stored on a computer as a Bitmap image.
   
   (i) Name one other suitable file type for storing the image.
       ............................................................................................................. [1]
   
   (ii) Describe one advantage of vector images compared to bitmap images.
       .............................................................................................................
       .............................................................................................................
       .............................................................................................................
       ............................................................................................................. [2]
A3 A toy windmill is made up from the parts shown below.

<table>
<thead>
<tr>
<th>Part</th>
<th>Sizes</th>
</tr>
</thead>
<tbody>
<tr>
<td>Backboard</td>
<td>1mm thick card Ø130</td>
</tr>
<tr>
<td>Spinner</td>
<td>1mm thick card Ø120</td>
</tr>
<tr>
<td>Spacer</td>
<td>1mm thick card Ø30</td>
</tr>
<tr>
<td>Handle</td>
<td>Ø15 dowel, 300 mm long</td>
</tr>
</tbody>
</table>

The pieces are assembled as shown below.

(a) the backboard;      [2]
(b) the spacer;         [2]
(c) the handle.         [3]

Do not include the thickness of the card.

(d) Complete the sectional view of the assembled pieces of the windmill by adding the securing split pin. [2]
Section B
Answer either question B4 or B5.

B4  A toy boat is shown below.

(a) Apply thick and thin line technique to the toy boat. [7]

(b) A cylindrical chimney is to be added to the top of the toy boat.

(b) Complete the drawing of the chimney below by constructing the elliptical shape of the top face and by adding the sides of the cylinder. [8]

(c) In the space below, complete the orthographic views of the toy boat. [10]
Orthographic views of a card model stand for ice cream cones are shown below.

(a) In the space below, draw an estimated two-point perspective view of the model ice cream cone stand to a scale of 1 : 2.

Ignore the thickness of the material and the circular holes.

Corner A and the 2 vanishing points have been given. [12]

(b) Add to the two-point perspective the ICES lettering. [5]

(c) Complete the development (net) of the stand below to a scale of 1 : 2. [8]