CAMBRIDGE
INTERNATIONAL EXAMINATIONS

INFORMATION AND COMMUNICATIONS TECHNOLOGY

PRACTICAL ASSESSMENT A2002

STANDARD LEVEL 5195/A

COMPUTER AIDED DESIGN

TIME I hour

INSTRUCTIONS TO CANDIDATES

Make sure that your name, centre number and candidate number are shown on each printout that you are asked to produce.

Carry out **every** instruction in **each** task.

Tasks are numbered on the left-hand side of the page, so that you can see what to do, step by step. On the right-hand side of the page for each task, you will find a box which you can tick (✓) when you have completed the task; this check list will help you to track your progress through the assignment.

Before each printout you should proof-read the document to make sure that you have followed all instructions correctly.

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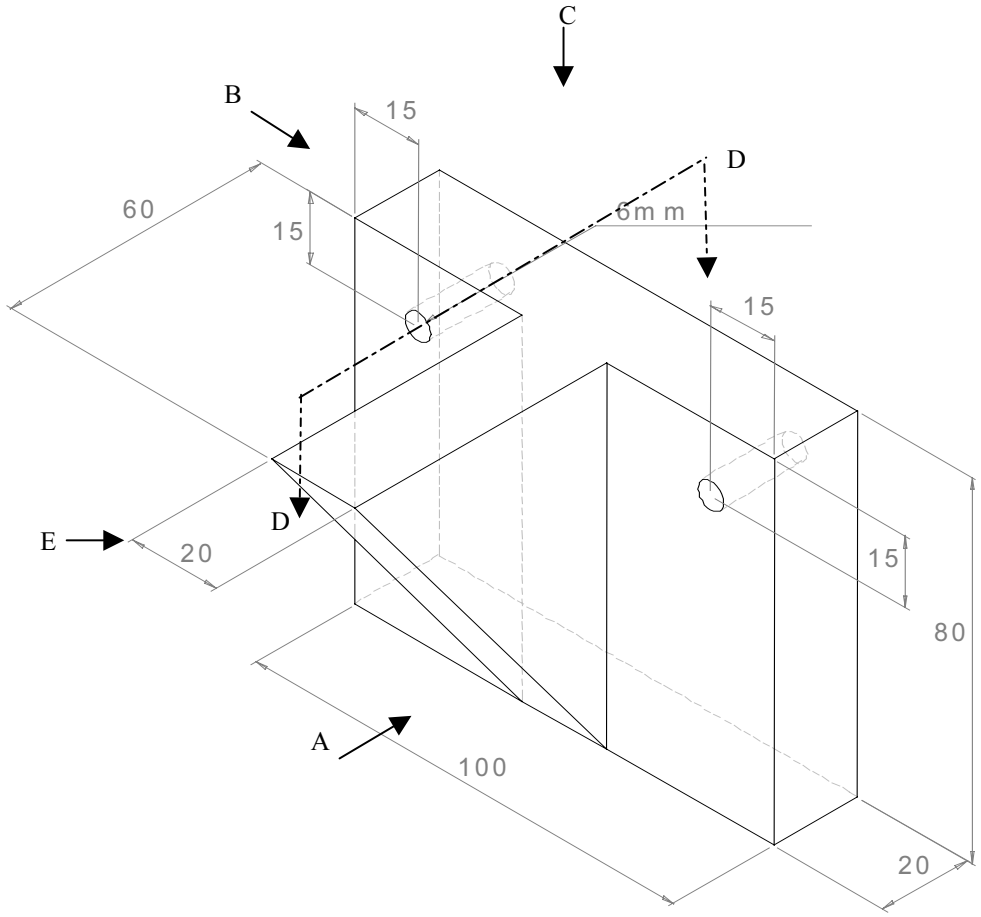
UNIVERSITY of CAMBRIDGE
Local Examinations Syndicate

This question paper consists of 3 printed pages.

COMPUTER AIDED DESIGN

Please produce a working drawing for a bracket. It should look like this:



		✓	
1	Load your CAD program and set a 1:1 scale.	☐	**1.1.1**
2	Set all units to millimetres.	☐	**1.1.2**
3	Create a 5 millimetre grid.	☐	**1.2.1**
4	Create a title block for your drawing; this should include the scale, the title **Bracket**, the dimension units, your name and today's date.	☐	**1.3.1**
5	Draw the front elevation of the bracket in the direction of arrow A.	☐	**2.1.1**
6	Draw the end elevation of the bracket in the direction of arrow B.	☐	**2.2.1** **2.2.2**
7	Draw the plan of the bracket in the direction of arrow C.	☐	**2.2.3**

		✓	
8	Show clearly the external dimension lines.	☐	**2.5.1**
9	Save and plot (or print) the drawing.	☐	**4.1.1**
10	Using the same scale, units and grid settings, draw a sectional view of the bracket through DD.	☐	**2.3.1**
11	Show all centre lines and hidden detail on this view. Use hatching as appropriate.	☐	**2.4.1**
12	Include a title block on your drawing; this should include the scale, the title, the dimension units, your name and today's date.	☐	**1.3.1**
13	Save and plot (or print) the drawing.	☐	**4.1.1**
14	Generate an isometric view from your 2-dimensional drawings in the direction of arrow E. Centre lines and hidden detail are not required.	☐	**3.1.1**
15	Include a title block on your drawing; this should include the scale, the title, the dimension units, your name and today's date.	☐	**1.3.1**
16	Save and plot (or print) the drawing.	☐	**4.1.1**

CAMBRIDGE
INTERNATIONAL EXAMINATIONS

INFORMATION AND COMMUNICATIONS TECHNOLOGY

PRACTICAL ASSESSMENT B2002

STANDARD LEVEL 5195/B

COMPUTER AIDED DESIGN

TIME I hour

INSTRUCTIONS TO CANDIDATES

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Local Examinations Syndicate

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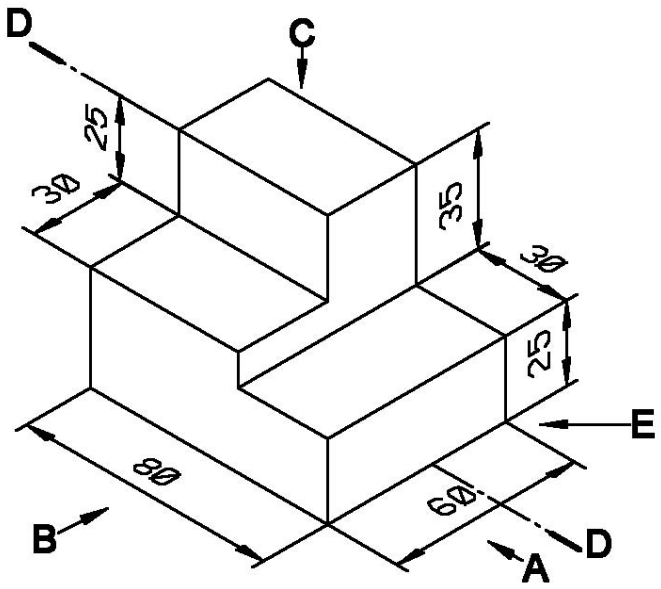
[Turn Over]

Widget's manufacturing company requires a drawing for the following product. You have an outline of the product with its dimensions shown in millimetres. Please produce the working drawing from the information supplied.



		✓	
1	Load the CAD application software.		
2	Set the scale to 1:1.	☐	**1.1.1**
3	Set up a grid with 5 millimetre spacing.	☐	**1.2.1**
4	Draw a title block in the bottom right-hand side of the drawing. It should contain; scale **1:1**; the title **widget1**; dimension **millimetres**; the date and your name.	☐	**1.3.1**
5	Draw a front elevation (in the direction of arrow A).	☐	**2.2.1**
6	Draw an end elevation (in the direction of arrow B).	☐	**2.2.2**
7	Draw a plan (looking down on top of the front elevation C).	☐	**2.2.3**

		✓	
8	Show clearly the external dimension lines.	☐	**2.5.1**
9	Save and plot (or print) the drawing.	☐	**4.1.1**
10	Using the same scale, units and grid settings, draw a sectional view through DD.	☐	**2.3.1**
11	Use hatching as appropriate.	☐	**2.4.1**
12	Include a title block on your drawing; this should include the scale, the title, the dimension units, your name and today's date.	☐	**1.3.1**
13	Save and plot (or print) the drawing.	☐	**4.1.1**
14	Generate an isometric view from your 2-dimensional drawings in the direction of arrow E. Centre lines and hidden detail are not required.	☐	**3.1.1**
15	Include a title block on your drawing; this should include the scale, the title, the dimension units, your name and today's date.	☐	**1.3.1**
16	Save and plot (or print) the drawing .	☐	**4.1.1**

CAMBRIDGE
INTERNATIONAL EXAMINATIONS

INFORMATION AND COMMUNICATIONS TECHNOLOGY

PRACTICAL ASSESSMENT C2002

5195/C

STANDARD LEVEL
COMPUTER AIDED DESIGN

TIME I hour

INSTRUCTIONS TO CANDIDATES

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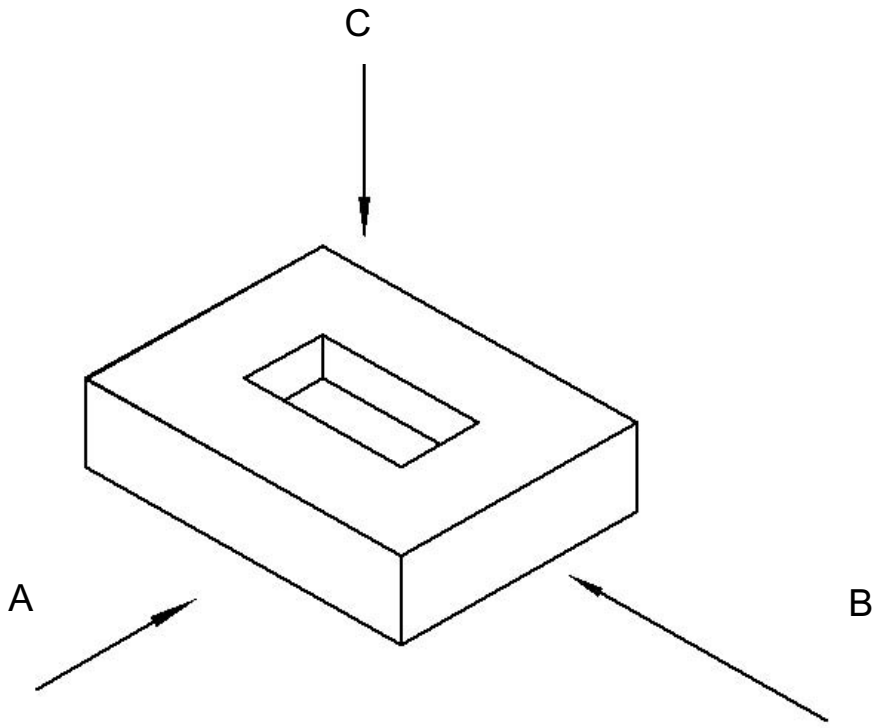
This question paper consists of 3 printed pages.

[Turn Over]

You work for an international company called Hothouse Design which has a new project for a customer called Mobile Solutions. The project concerns designing and promoting a range of new mobile phone packages.

You are going to produce a working drawing for a new mobile phone desk stand. It should look like this:



The dimensions of the stand in millimetres are 80 long x 60 wide x 20 deep.
The dimensions of the hole in millimetres are 40 long x 20 wide x 10 deep.

		✓	
1	Load appropriate C.A.D. software and set a 1:1 scale.	☐	**1.1.1**
2	Set the units to millimetres.	☐	**1.1.2**
3	Create a 10 millimetre grid.	☐	**1.2.1**

Front Elevation, Side Elevation and Plan View

4	Include a title block on the drawing, which accurately states the scale, the title **Stand**, dimension units, your name and today's date.	☐	**1.3.1**
5	Draw the front elevation of the stand in the direction of arrow *A*.	☐	**2.1.1** **2.2.1**
6	Draw the side elevation of the stand in the direction of arrow *B*.	☐	**2.2.2**

		✓	
7	Draw the plan of the stand in the direction of arrow *C*.	☐	**2.2.3**
8	Show external dimension lines.	☐	**2.5.1**
9	Save and print or plot the drawing.	☐	**4.1.1**

Sectional View

10	Using the same scale, units and grid settings, draw a sectional view of the stand through *DD*.	☐	**2.3.1**
11	Show centre lines. Use hatching as appropriate.	☐	**2.4.1**
12	Include a title block on the drawing, which accurately states the scale, title, dimension units, your name and date.	☐	**1.3.1**
13	Save and print or plot the drawing.	☐	**4.1.1**

Isometric View

14	Using the same scale, units and grid settings, draw an isometric view of the stand from your *Front Elevation, Side Elevation* and *Plan* drawings.	☐	**3.1.1**
15	Include a title block on the drawing, which accurately states the scale, title, dimension units, your name and date.	☐	**1.3.1**
16	Save and print or plot the drawing.	☐	**4.1.1**