



Please write clearly in block capitals.

Centre number

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Candidate number

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Surname

Forename(s)

Candidate signature

GCSE

INFORMATION AND COMMUNICATION TECHNOLOGY (SHORT COURSE)

Unit 1 Systems and Applications in ICT

Wednesday 18 May 2016

Morning

Time allowed: 1 hour

Materials

- You may use a calculator.

Instructions

- Use black ink or black ball-point pen.
- Fill in the boxes at the top of this page.
- Answer **eight** questions in total.
- Answer **all** questions in Sections A and B. In Section C answer **either** Question 8 **or** Question 9, which should be answered in continuous prose. In this question you will be marked on your ability to use good English, organise information clearly, and to use specialist vocabulary where appropriate.
- You must answer the questions in the spaces provided. Do not write outside the box around each page or on blank pages.
- Do all rough work in this book. Cross through any work you do not want to be marked.

Information

- The marks for questions are shown in brackets.
- The maximum mark for this paper is 60.



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IB/M/Jun16/E6

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Section A

Answer **all** questions in the spaces provided.

1 (a) Ann has bought a new desktop computer. Ann has been told by the computer shop manager that she also needs some of the following devices.

- A** Digital projector
- B** Keyboard
- C** Microphone
- D** Mouse
- E** Printer
- F** Speakers

Give **three** of the above that are input devices.

[3 marks]

Write the letters for your answers in the boxes provided.

Answers

1 (b) Which **one** of the following is **not** a type of storage media?

[1 mark]

- A** Actuator
- B** DVD-R
- C** Memory stick
- D** Portable hard disk

Write the letter for your answer in the box provided.

Answer

1 (c) Describe the difference between hardware and software.

[2 marks]

1 (d) State what is meant by the term 'e-book'.

[1 mark]



2 (a) The list below shows a range of audio/video software features. For each part of this question give the software feature that **best** matches the definition given.

- | | |
|-----------------------|--------------------|
| A Aspect ratio | F Rendering |
| B Backward | G Start |
| C Forward | H Subtitles |
| D Mute | I Zoom |
| E Playlist | |

Choose your answers from the **list given above**. Write the letter for your answer in the box provided.

2 (a) (i) A feature that translates or transcribes the dialogue and displays captions at the bottom of a screen.

[1 mark]

Answer

2 (a) (ii) A feature that contains music or videos selected by a user to be played in a particular order.

[1 mark]

Answer

2 (a) (iii) A feature that stops any sound from being heard.

[1 mark]

Answer

2 (b) (i) Give **one** advantage of downloading music compared to streaming music.

[1 mark]

2 (b) (ii) Give **two** disadvantages of downloading music compared to streaming music.

[2 marks]

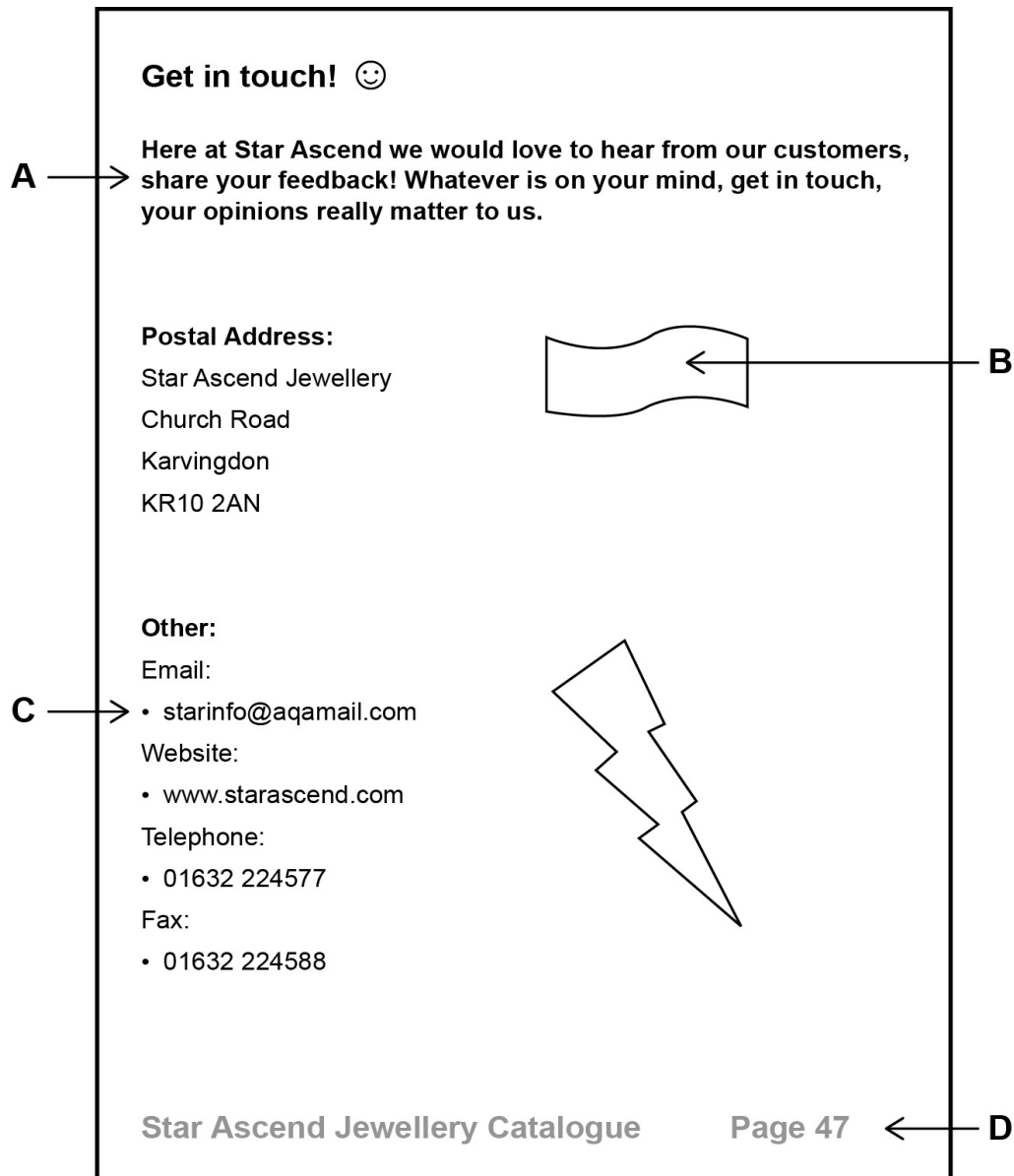
Disadvantage 1

Disadvantage 2



- 3 Star Ascend is a company that sells jewellery. Star Ascend uses desktop publishing software to produce a catalogue for customers. **Figure 1** shows the final page of the printed catalogue.

Figure 1



- 3 (a) Tick **one** box to show which of the following **best** describes the feature applied to the section of the catalogue page labelled **A** in **Figure 1**.

[1 mark]

	Tick one box only
Bold and left justification	<input type="checkbox"/>
Bold and right justification	<input type="checkbox"/>
Bold and centre	<input type="checkbox"/>
Underline and columns	<input type="checkbox"/>



- 3 (b)** Tick **one** box to show which of the following **best** describes the feature applied to the section of the catalogue page labelled **B** in **Figure 1**.

[1 mark]

	Tick one box only
Autoshape	
Font size	
Italics	
Shading	

- 3 (c)** Tick **one** box to show which of the following **best** describes the feature applied to the section of the catalogue page labelled **C** in **Figure 1**.

[1 mark]

	Tick one box only
Bullets	
Sub numbering	
Ungrouping	
Word count	

- 3 (d)** Tick **one** box to show which of the following **best** describes the feature applied to the section of the catalogue page labelled **D** in **Figure 1**.

[1 mark]

	Tick one box only
Drag and drop	
Footer	
Sub heading	
Tabs	

- 3 (e)** Describe the difference between word processing and desktop publishing software.

[2 marks]



- 4 The Eastmond Cricket Club secretary uses a data capture form to collect information from members. Some of the field names are missing from the incomplete design shown below.

Eastmond Cricket Club	
Last name
First name
Address 1
Address 2
(i)	<u> E </u> <u> A </u> _ _ _ _
(ii)	(<u> 0 </u> <u> 1 </u> <u> 6 </u> <u> 3 </u> <u> 2 </u>) _ _ _ _
(iii)	_ _ / _ _ / _ _

- 4 (a) Give the most suitable field **names** for each of the three fields below.

[3 marks]

Field (i) _____

Field (ii) _____

Field (iii) _____

- 4 (b) Name **two** types of data collection/capture methods, other than a data capture form.

[2 marks]

Method 1 _____

Method 2 _____

- 4 (c) The Eastmond Cricket Club secretary enters the data from a data capture form into a database of members. He uses this database to produce reports which are sent to members. Give **one** advantage of producing reports in this way.

[1 mark]



5 A group of Year 11 students are planning to give a presentation to Year 7 students as part of a project on Internet safety. One of their slides is shown below.

The Golden Rules of Internet Safety

- Don't meet up with strangers you have chatted with online
- Don't use your real name
- Don't tell people which school you go to
- Use strong passwords for your social networking accounts
- Don't make inappropriate comments

5 (a) Give **three** features that could be included on the slide to improve the presentation for Year 7 students.

[3 marks]

Feature 1 _____

Feature 2 _____

Feature 3 _____

5 (b) The Year 11 students are keen to make sure the Year 7 presentation is fit for purpose. Describe what is meant by the term 'fit for purpose'.

[2 marks]

5



Section B

Answer **all** questions in the spaces provided.

- 6** PlasticStyle is a global online shopping website selling clothing for children aged 3–16 years. PlasticStyle staff use database software to manage stock sold through the online catalogue. **Figure 2** is an example of an input form used by PlasticStyle.

Figure 2

The screenshot shows a window titled 'Products' with a sub-header 'PlasticStyle Products'. Below the header is a table with the following data:

Item Code	101
Colour	Tan
Item Name	Chinos
Size	16
Price	£ 10.00
Number in Stock	38

At the bottom of the window, there is a control bar with the text 'Record: 1 of 10', navigation arrows, a filter icon, and the text 'No Filter' and 'Search'.

- 6 (a)** One common feature of database software is a 'switchboard'. Explain what is meant by the database term 'switchboard'.

[2 marks]



6 (b) Give **two** advantages to PlasticStyle staff of using input forms to enter and edit data, rather than entering data directly into a database table.

[2 marks]

Advantage 1 _____

Advantage 2 _____

6 (c) The growth in the use of ICT has made business globalisation possible. Describe the advantages to society from the development of globalised business activity.

[5 marks]

9

Turn over for the next question



Turn over ►

- 7 Students at a school are carrying out a project on the use of mobile computing. The students are using linked worksheets within a spreadsheet to record which use is the most common.

Figure 3 shows the overall use by six anonymous students.

Figure 3

	A	B	C	D	E	F	G
1	Use of Mobile Computing	Time Spent (%)					
2		Student A	Student B	Student C	Student D	Student E	Student F
3	Social Networking	26	37	20	22	15	41
4	Communication	23	14	16	13	17	12
5	Productivity	17	7	6	10	4	8
6	Games	11	21	30	18	43	6
7	Entertainment	11	14	15	21	10	16
8	Shopping	6	7	3	5	7	14
9	News	6	0	10	11	4	3
10							
	Overall	Student A	Student B	Student C	Student D	Student E	Student F

- 7 (a) (i) In **Figure 3**, give the cell range of the time spent by Student B on the use of mobile computing.

[1 mark]

Figure 4 shows Student B's worksheet linked to the Overall sheet.

Figure 4

	A	B	C	D	E	F
1	Total Mobile Computing Hours					
2		7				
3						
4		Hours	Percentage %			
5	Social Networking	2.6	37			
6	Communication	1	14			
7	Productivity	0.5	7			
8	Games	1.5	21			
9	Entertainment	1	14			
10	Shopping	0.5	7			
11	News	0	0			
12						
	Overall	Student A	Student B	Student C	Student D	Student E
						Student F



- 7 (a) (ii) Tick **one** box to show the formula that has been used in cell C3 in **Figure 3** to link the Social Networking percentage time for Student B shown in **Figure 4**. [1 mark]

	Tick one box only
='Student B'!C4	<input type="checkbox"/>
='Student B'!C5	<input type="checkbox"/>
='Student B'!D5	<input type="checkbox"/>
='Student C'!C5	<input type="checkbox"/>

- 7 (b) **Figure 5** shows a breakdown of the uses of mobile computing.

Figure 5



- 7 (b) (i) Name the type of chart shown in **Figure 5**. [1 mark]

- 7 (b) (ii) Give **one** feature that could be used to improve the understanding of the information displayed in the chart shown in **Figure 5**. [1 mark]



7 (c)

Describe the advantages to a user of creating their own personal website rather than using websites within social networking accounts.

[5 marks]

9



Section C

You should answer **either** Question 8 **or** Question 9, but **not** both.

You will be marked on your ability to use good English, to organise information clearly and to use specialist vocabulary where appropriate.

Either

- 8** Discuss the advantages and disadvantages to a business of using automated stock control.

[12 marks]

This space is available for planning your answer, if you wish to use it.



Lined writing area with 25 horizontal lines.



Or

- 9** Discuss how potential health problems, related to prolonged use of ICT in the workplace, can be minimised.

[12 marks]

This space is available for planning your answer, if you wish to use it.



Turn over ►

Lined writing area with horizontal lines.



Turn over ►

