

Centre Number						Candidate Number				
Surname										
Other Names										
Candidate Signature										

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General Certificate in Secondary Education
June 20XX

Information and Communication Technology (Short Course) XXXXX

Unit 1 Specimen Systems and Applications in ICT

You will need no other materials.
You may use a calculator.

Time allowed

- 1 hour.

Instructions

- Use black ink or black ball-point pen. Use pencil only for drawing.
- Fill in the boxes at the top of the page.
- 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
 - 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.

For Examiner's Use			
Number	Mark	Number	Mark
1		6	
2		7	
3		8	
4		9	
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Total (Column 1)		→	
Total (Column 2)		→	
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Examiner's Initials			

XXXXX

Section A

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

- 1 (a) Which **one** of the following output devices gives hard copy output?

Write the letter corresponding to your answer in the box given.

- A Digital projector
- B Monitor
- C Printer
- D Speaker

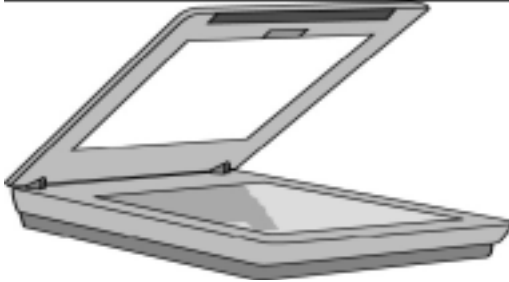

Answer

(1 mark)

- 1 (b) Five input devices have been labelled A to E in the table below.

Label	Name
A	Interactive whiteboard
B	Joystick
C	Keyboard
D	Microphone
E	Scanner

Write **one** label in each box to name the **input device** shown.

	Input device	Write one label in each box
(i)		
(ii)	 <small>(QCDA: picture to be re-drawn)</small>	

(2 marks)

1 (c) Name **one** other input device that is not given in part 1(b).

.....
(1 mark)

1 (d) Tick **two** boxes to show which of the following are portable devices.

	Tick two boxes only
Colour laser printer	
Desktop computer	
Interactive whiteboard	
Notebook computer	
PDA	

(2 marks)

2 (a) People are increasingly using digital devices such as a Smartphone.

Give **three** features available on a Smartphone that are **not** usually available on standard phones.

Feature 1.....
Feature 2
Feature 3.....

(3 marks)

2 (b) **Without** just listing more additional features, explain what makes a Smartphone different from standard phones.

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.....
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(2 marks)

6

5

3 Some types of applications software are **more suitable** than others for carrying out a given task.

3 (a) Match the **best** type of applications software, **A, B, C, D** or **E**, to carry out the tasks **(i) – (iii)** in the table below.

- A Database
- B Desktop publishing
- C Graphics
- D Web design
- E Word processing

	Task to be carried out	Letter
(i)	Designing the cover for a music CD	
(ii)	Storing and processing the details of members of a gym	
(iii)	Creating a printed school magazine that includes images of the various school activities over the year	

(3 marks)

3 (b) A college student uses a PC to help plan her budget for the first term. A screenshot of this plan is shown below

	A	B	C	D
1	Weekly Budget			
2				
3	Income	Amount	Weeks	Income per week
4	Government grant	£1,020.00	12	£85.00
5	Student Loan (per term)	£1,380.00	12	£115.00
6	Weekly wage from part-time job	£25.00	1	£25.00
7				
8	Total weekly income			£225.00
9				
10				
11	Spending	Amount	Weeks	Spending per week
12	Rent (paid monthly)	£210.00	4	£52.50
13	Fuel bills (paid monthly)	£45.00	4	£11.25
14	Other bills - food etc.	£250.00	4	£62.50
15	College expenses - books etc. (per term)	£190.00	12	£15.83
16	Clothes (per term)	£160.00	12	£13.33
17	Travel (per term)	£130.00	12	£10.83
18	Leisure activities per week	£40.00	1	£40.00
19	Emergency money - left in bank (per term)	£100.00	12	£8.33
20				
21	Total spending			£214.58
22				
23	Money left per week			£10.42
24				

Which type of application software has been used to create this budget?

Software used

(1 mark)

3 (c) The cell A4 has been formatted to text.

Tick **one** box to show how the cell C5 has been formatted.

	Tick one box only
Currency	
Date	
Number	
Percentage	

(1 mark)

3 (d) What formula has been used in cell D4?

.....

(1 mark)

3 (e) Explain how the student could use this software as a model to explore ways of spending the money but still stay within budget.

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(2 marks)

Turn over for the next question

4 (a) One method often used to communicate is e-mail.

Explain what is meant by the term *e-mail*.

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(2 marks)

4 (b) One of the problems with e-mail is that people may receive spam.

Describe what is meant by the term *spam*.

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(2 marks)

5 Integrated home entertainment systems are also becoming increasingly popular.

5 (a) Give **three** devices you would expect to find in such systems.

Device 1

Device 2.....

Device 3

(3 marks)

5 (b) For many years terrestrial TV offered a very limited number of channels and services. Today with the introduction of digital cable and satellite TV many more channels, facilities and services are available.

Other than providing extra channels, describe **one** facility or service you would expect to be available on cable or satellite TV.

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(2 marks)

Turn over for the next section

Section B

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

6 An increasing number of people are joining social networking websites.

6 (a) Describe what is meant by the term *social networking*.

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(2 marks)

6 (b) Give **two** reasons why social networking websites are becoming increasingly popular.

Reason 1

Reason 2

(2 marks)

6 (c) Give **two** possible disadvantages to the **visitor** of using social networking sites.

Disadvantage 1

Disadvantage 2

(2 marks)

7 A travel agency uses networked computers to book holidays for its customers. The computers are connected to the Internet.

7 (a) Security is very important and each travel agent in the shop has their own password. The choice of a **suitable** password is very important.

Give **two** pieces of advice that you would give to the travel agent about choosing a suitable password.

Advice 1.....
.....

Advice 2
.....

(2 marks)

7 (b) One of the biggest security problems for the travel agency comes from hackers.

7 (b) (i) State what is meant by a *hacker*.

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(1 mark)

7 (b) (ii) Other than the use of passwords, give **one** other software method of preventing hackers.

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(1 mark)

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(12 marks)

12

Turn over for the next question

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(12 marks)

12

END OF QUESTIONS