

Centre Number						Candidate Number				
Surname										
Other Names										
Candidate Signature										

For Examiner's Use	
Examiner's Initials	
Question	Mark
1	
2	
3	
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7	
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9	
TOTAL	



General Certificate of Secondary Education
June 2012

Information and Communication Technology (Short Course)

45204

Unit 1 Systems and applications in ICT

Friday 1 June 2012 9.00 am to 10.00 am

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

Time allowed

- 1 hour

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
 - 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.



J U N 1 2 4 5 2 0 4 0 1

Section A

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

1 Computer systems include both hardware and software.

1 (a) Tick **two** boxes to show which of the following are hardware.

	Tick two boxes only
A monochrome laser printer	
A digital projector	
A guide to the system instruction manual	
An operating system	
A podcast	

(2 marks)

1 (b) From the list above, give **one** which is clearly software.

.....
(1 mark)

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

	Tick two boxes only
CD-ROM	
Flash memory	
Plotter	
Scanner	
Speakers	
Web cam	

(2 marks)

1 (d) Explain why it is important to back up data stored on a computer system.

.....
.....
.....
.....
.....

(1 mark)

6



2 (a) For each row of the table below, choose the letter from **A, B, C, D, E, F, G** or **H** which best matches the description.

- | | | |
|----------------------|--------------------------|--------------------|
| A Attachments | D E-mail address | G Outbox |
| B Bcc | E Forward e-mails | H Signature |
| C Cc | F Inbox | |

	Description	Letter
(i)	The main folder that stores the e-mails you receive	
(ii)	A block of text that is added to the end of an e-mail message you send	
(iii)	Sending an e-mail message to many people in such a way that it hides the fact that it is being addressed to other people as well	

(3 marks)

2 (b) (i) Tick **one** box to show which of these best describes what is meant by junk e-mail (spam).

	Tick one box only
E-mails that arrive between midnight and 5.00 am	
E-mails that come from people in your address book	
E-mails that come from people not in your address book	
Identical e-mails that are sent in bulk, often from commercial organisations	

(1 mark)

2 (b) (ii) Give **one** way of managing junk e-mail.

.....

.....

(1 mark)

Turn over for the next question



3 (a) In the space below, complete the design of a data capture form for people applying to become members of a health club. Care should be taken to include suitable fields and enough space to fill in their details.

Mardon Health Club

Surname

Other Name

Address 1

Address 2

(4 marks)

3 (b) Name **two** other methods of data capture that would be suitable for the health club to use to collect this information.

Method 1.....

Method 2.....

(2 marks)

6



4 For a year 11 assembly, the Prom committee is preparing a presentation about this year's Prom. The first two slides are shown below.



4 (a) Having looked at these slides, give **two** pieces of advice to the Prom committee about presenting information in a way that is fit for purpose and audience.

Advice 1

.....

Advice 2

.....

(2 marks)

4 (b) Tick **two** boxes to show which of these are common features of presentation software.

	Tick two boxes only
Buttons	<input type="checkbox"/>
Mail merging	<input type="checkbox"/>
Modelling	<input type="checkbox"/>
Sound effects	<input type="checkbox"/>
Use of queries	<input type="checkbox"/>

(2 marks)

4 (c) Describe, using at least **one** example, what is meant by *slide transition*.

.....

.....

.....

.....

(2 marks)



5 (a) For each row of the table below, choose the letter from **A, B, C, D, E, F, G** or **H** which best matches the description.

- | | | |
|---------------------|----------------------------|-----------------------------|
| A Analysis | D Feasibility study | G Testing |
| B Design | E Implementation | H User documentation |
| C Evaluation | F Maintenance | |

	Description	Letter
(i)	Uses interviews, questionnaires or observation to gather information about how the present system works	
(ii)	Where the evaluation criteria (desired outcomes and performance criteria) are defined	
(iii)	Where plans for construction and testing of the new system are created	

(3 marks)

5 (b) Below is the structure for the start of the construction of a test plan. The headings **Test number** and **Purpose of the test** have already been included in the plan.

Test number	Purpose of the test	Heading 3	Heading 4

Give a suitable title for **Heading 3** and **Heading 4** and state why each of them is needed.

5 (b) (i) **Heading 3**

Why it is needed

.....

(2 marks)

5 (b) (ii) **Heading 4**

Why it is needed

.....

(2 marks)

7



Turn over for the next section

**DO NOT WRITE ON THIS PAGE
ANSWER IN THE SPACES PROVIDED**

Turn over ▶



0 7

Section B

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

- 6** The Khan family uses the spreadsheet below to help work out the cost of running a medium-sized family car.

	A	B
1	Estimated cost of running a medium-sized family car for the year 2012	
2		
3	Fixed costs (whatever the mileage)	Cost
4	Road tax	£180.00
5	Insurance	£454.00
6	Depreciation (loss in value)	£1,866.00
7	Breakdown cover	£50.00
8	Total fixed cost per year	£2,550.00
9		
10	Variable costs (varies with the miles travelled)	Cost (p)
11	Petrol per mile	12.31
12	Tyres per mile	1.1
13	Service/repairs per mile	5.5
14	Total cost per mile in pence	18.91
15		
16	Mileage for the year	10,000
17	Total variable cost per year	£1,891.00
18		
19	Total cost of motoring	£4,441.00
20		
21	Average cost per mile of running the car	£0.44

- 6 (a)** The cell A4 has been formatted as text.

Tick **one** box to show which word describes the formatting of the data in B4.

	Tick one box only
Currency	
Date	
Number	
Text	

(1 mark)

- 6 (b)** Give **two** features that have been used to improve the appearance of the spreadsheet.

Feature 1

Feature 2

(2 marks)



- 7 A hospital keeps information about patients on a database. Part of the database table is shown below.

Patient ID	Patient Name	Date of Birth	Gender	Admission Date	Doctor	Ward Number	Contact Number
00897672	Ali Ahmed	11/11/1950	M	09/06/2012	Iqbal	2	01762 555490
00897725	Chan David	01/12/2000	M	12/06/2012	Bryan	11	01716 123455
00897693	Collins Sarah	23/05/1997	F	10/06/2012	Wilson	3	01762 855489
00897726	Jones Jon	19/06/1992	M	12/06/2012	Bryan	11	01762 773456
00897649	Morgan Peter	15/08/1967	M	05/06/2012	Yau	6	01762 589002
00897711	Rogers Harry	30/07/1851	M	11/06/2012	Bryan	11	01716 125431
00897712	Smith Anna	09/10/1944	F	11/06/2012	Wilson	3	01762 556677
00897601	Smith Anne	31/12/1978	F	01/06/2012	Iqbal	10	01762 856767
00897602	Wilson Katy	10/09/1986	F	04/06/2012	Yau	6	01716 124563

- 7 (a) Tick **one** box to show the **Patient ID(s)** found as a result of each of the following searches.

- 7 (a) (i) Search criteria: **Ward Number** equals 6

Patient ID	Tick one box only
00897649	
00897711	
00897649 and 00897602	
00897711 and 00897602	

(1 mark)

- 7 (a) (ii) Search criteria: **Doctor** equals Iqbal AND **Gender** equals M

Patient ID	Tick one box only
00897601	
00897672	
00897601 and 00897672	
00897649 and 00897672	

(1 mark)



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 impact that communications and entertainment technology has had on society.

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

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There are no questions printed on this page

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ANSWER IN THE SPACES PROVIDED**

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