

Centre Number						Candidate Number				
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For Examiner's Use	
Examiner's Initials	
Question	Mark
1	
2	
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TOTAL	



General Certificate of Secondary Education
June 2014

Information and Communication Technology (Short Course)

45204

Unit 1 Systems and Applications in ICT

Wednesday 14 May 2014 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 4 4 5 2 0 4 0 1

Section A

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

1 For each part, write the letter or letters for your answers in the boxes given.

1 (a) Which **two** of the following are common input devices used with home computers?

- A** Digital projector
- B** Joystick
- C** Keyboard
- D** Plotter
- E** Solid state disk

[2 marks]

Answers

1 (b) Which **one** of the following is an input device that is usually used to scan details of items being purchased at the checkout tills in supermarkets?

- A** Bar-code reader
- B** MIDI instrument
- C** OCR reader
- D** RFID reader

[1 mark]

Answer

1 (c) Which **one** of the following is a common output device used with business computers to produce hard copies?

- A** Graphics tablet
- B** Interactive whiteboard
- C** Laser printer
- D** Monitor

[1 mark]

Answer



1 (d) Which **one** of the following is a common output device used with VoIP/Internet telephone systems such as Skype to communicate with friends and family?

- A** GPS
- B** Speakers
- C** Web cam
- D** Wireless card

[1 mark]

Answer

1 (e) Which **one** of the following is a common backing storage medium used with home computers to store backup data?

- A** Dongle
- B** Trackball
- C** USB memory stick
- D** Video card

[1 mark]

Answer

6

Turn over for the next question

Turn over ▶



- 2 The FonezStorz is a shop selling mobile phones. The manager has decided to create a flyer using Desktop Publishing software. The flyer will be given out to customers when they come into the shop. The first attempt is shown below.

The FonezStorz
 Want a knew phone but have no money to buy one?
 Want a modern, fast 4G smartphone?
 Want a flexable, low monthly contract with a national company?
 Want you knew phone quickly?
 Then either,
 talk to one of our instore sales team
 phone us on 0798989898
 visit our website www.FonezStoze.co.uk

- 2 (a) Tick **two** boxes to show which features of Desktop Publishing software would be the best to use to improve the **layout** of the flyer.

[2 marks]

	Tick two boxes only
Bullets	
Coloured text	
Line spacing	
Print screen	
Search and replace	



2 (b) Without using any of the options given in the table in part (a) give **two** features of Desktop Publishing software that could be used to improve the **presentation** of the flyer and make it fit for purpose.

[2 marks]

Feature 1

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Feature 2

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2 (c) At present the flyer contains some errors. Give **one** way the manager could check the accuracy of the flyer and help reduce mistakes.

[1 mark]

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5

Turn over for the next question

Turn over ▶



3 Alan Johnson is a student who has recently bought a new computer and several software packages.

3 (a) (i) Alan needs a suitable password to use with some documents and when accessing some web sites.

Tick **one** box to show which of the following passwords would be the most secure.

[1 mark]

	Tick one box only
Aj1996	
Alanjohnson	
JoHnSoN123	
Qz6&iP23M?jn49	
1996AIAAn	

3 (a) (ii) Give **one** reason why the password you have chosen would be the most secure.

[1 mark]

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3 (b) (i) Alan uses emails but is worried about the number of junk emails and phishing emails he receives. State what is meant by junk emails.

[1 mark]

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.....

3 (b) (ii) Give **one** reason why people send phishing emails.

[1 mark]

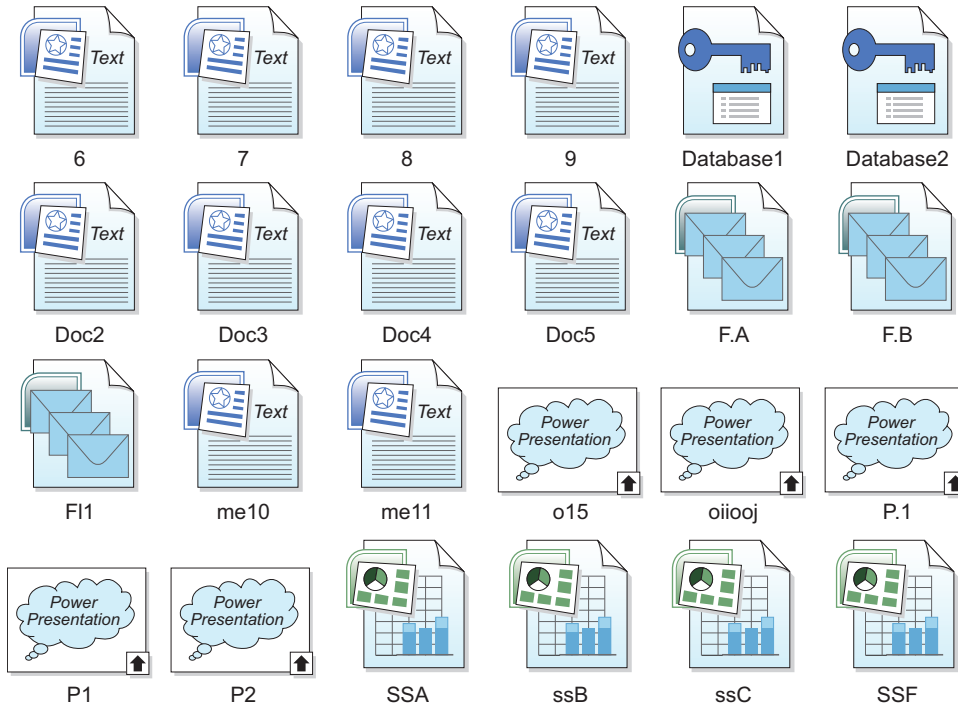
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3 (c) Alan is finding it increasingly difficult to find files (see screenshot below). Give **two** pieces of advice to help him organise his files.

[2 marks]



Advice 1

Advice 2

6

Turn over for the next question

Turn over ▶



4 For each of the following, choose the letter from **A**, **B**, **C** or **D** which **best** matches the description of the given source of information.

4 (a) (i) **Description**

Distribution of multimedia files over the Internet for playback on a mobile device or a personal computer.

- A DVD-ROM
- B Online database
- C Podcast
- D Social networking

[1 mark]

Answer

4 (a) (ii) **Description**

A website that displays, in date order, the postings by one or more individuals and usually has links to comments on specific postings.

- A E-book
- B Online newspaper
- C SMS (text messaging)
- D Web log (Blog)

[1 mark]

Answer

4 (a) (iii) **Description**

A website which allows users to add, modify, or delete its contents.

- A Bulletin board
- B Forum
- C Instant messaging
- D Wiki

[1 mark]

Answer



4 (b) Describe what is meant by an Internet search engine.

[2 marks]

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4 (c) Give **two** reasons why information found on the Internet may not be reliable.

[2 marks]

Reason 1

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Reason 2

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7

Turn over for the next question

Turn over ▶



5 People use a wide range of communication devices and media to communicate with each other.

5 (a) Outline the **use** of the following communication devices.

[2 marks]

Sat Nav
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Online bulletin boards
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5 (b) Emails are another way in which people communicate with each other. Explain the difference between 'cc' and 'bcc' which are common features of emails.

[2 marks]

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5 (c) Give **two** possible disadvantages of using social networking sites to communicate with other people.

[2 marks]

Disadvantage 1
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Disadvantage 2
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6



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ANSWER IN THE SPACES PROVIDED**

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Section B

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

6 Eastmond School uses a spreadsheet to help calculate the number of reward points collected by the students in different year groups.

	A	B	C	D	E	F	G
1	Reward Points						
2		Reward	Year 7	Year 8	Year 9	Year 10	Year 11
3		Attendance	67	59	68	86	44
4		Behaviour	43	54	77	46	65
5		Uniform	31	12	34	43	27
6		Punctuality	85	63	37	38	41
7	Sub Total		226	188	216	213	177
8	(If over 75 for attendance add 25 bonus points)		0	0	0	25	0
9	Final total		226	188	216	238	177

6 (a) What data type has been used in cell D7?

[1 mark]

.....

6 (b) (i) Tick **one** box to show which formula has been used in the cell C8.

[1 mark]

	Tick one box only
=IF(C3>75,25,0)	<input type="checkbox"/>
=IF(C3<75,25,0)	<input type="checkbox"/>
=IF(C3>75,0,25)	<input type="checkbox"/>
=IF(C3>75,0,0)	<input type="checkbox"/>



6 (b) (ii) Explain why the IF function has been used in this cell.

[2 marks]

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6 (c) The school is thinking about possible backing/secondary storage for important data. Discuss the advantages and disadvantages of devices and media that could be used to safely back up data.

[5 marks]

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Turn over for the next question

Turn over ▶



- 7 e2meBooks is an online company selling e-books. A data table is used to store information about the e-books for sale. Part of the data table is shown below.

E-book ID	Category	Author First Name	Author Second Name	Price	Book Title	Date Published
EB102261	Children	Ben	Chan	£1.99	Amazing Danger Squid	03/04/2012
EB202538	Fiction	Tom	Webb	£6.99	Dreamtime Forever	06/08/2010
EB305874	Humour	Donal	Kleypas	£1.49	Watch This Catastrophe	11/01/2011
EB519538	Science Fiction	Shelley	Robinson	£4.49	Werewolves of Olympus Mons	05/10/2011
EB655199	Crime	Armin	Rieff	£1.99	Moonlight Conspiracy: Book One	23/05/2012
EB673512	Horror	Coco	Simmons	£4.49	Graveyard Walls	12/11/2011
EB703111	Fiction	Miranda	Meyers	£4.99	Below The Beneath	09/04/2010
EB835010	Children	Daisy	Scott	£0.99	Soup City Radio	19/09/2012
EB900038	History	Ana	Kosminen	£1.99	The Military Campaigns of Genghis Khan	26/07/2010

- 7 (a) How many fields are shown in this part of the data table?

[1 mark]

- 7 (b) A search produces the following output:

EB102261	Ben	Chan	£1.99	Amazing Danger Squid
EB835010	Daisy	Scott	£0.99	Soup City Radio

What criterion for the search was used in the Category field?

[1 mark]

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- 7 (c)** Data validation is used by e2meBooks to make sure the data in the data table is reasonable.
Tick **two** boxes which show common methods of data validation.

[2 marks]

	Tick two boxes only
Range check	
Heading check	
Sort check	
Report check	
Presence check	

Question 7 continues on the next page

Turn over ▶



7 (d) e2meBooks uses a database with three data tables to store information. These tables are titled E-books, Downloads and Customers. The three data tables are linked together. Describe the advantages of linking data tables together.

[5 marks]

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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.

8 Many companies use video conferencing to work collaboratively on projects.
Discuss the advantages and disadvantages of this approach.

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

[12 marks]

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Handwriting practice area with 25 horizontal dotted lines.

12

Turn over ▶



A large rectangular box containing 25 horizontal dotted lines for writing.

Turn over ▶



Area containing horizontal dotted lines for writing.

END OF QUESTIONS

12



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