

Write your name here

Surname

Other names

Centre Number

Candidate Number

**Edexcel GCSE**

# Information and Communication Technology

## Unit 1: Living in a Digital World

Monday 10 January 2011 – Afternoon  
**Time: 1 hour 30 minutes**

Paper Reference

**5IT01/01**

**You do not need any other materials.**

Total Marks

### Instructions

- Use **black** ink or ball-point pen.
- **Fill in the boxes** at the top of this page with your name, centre number and candidate number.
- Answer **all** questions.
- Answer the questions in the spaces provided  
– *there may be more space than you need.*

### Information

- The total mark for this paper is 80.
- The marks for **each** question are shown in brackets  
– *use this as a guide as to how much time to spend on each question.*
- Questions labelled with an **asterisk** (\*) are ones where the quality of your written communication will be assessed  
– *you should take particular care on these questions with your spelling, punctuation and grammar, as well as the clarity of expression.*

### Advice

- Read each question carefully before you start to answer it.
- Keep an eye on the time.
- Try to answer every question.
- Check your answers if you have time at the end.

Turn over ►

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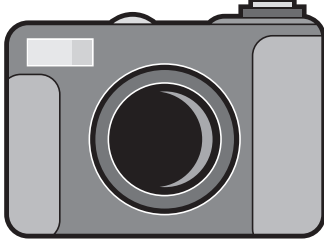
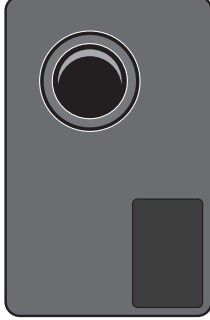
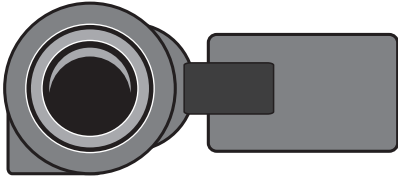
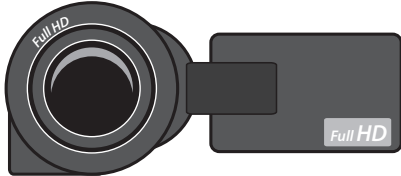


**Answer ALL questions.**

**Lee, Mitch and Stevie are school friends. They have a wide range of interests.**

**They are confident users of ICT. They use ICT in learning, leisure and socialising.**



Camcorder A		Camcorder B	
			
<b>Video format</b>	SD	<b>Video format</b>	SD
<b>Optical zoom</b>	None	<b>Optical zoom</b>	None
<b>Digital zoom</b>	None	<b>Digital zoom</b>	2x
<b>LCD screen</b>	None	<b>LCD screen</b>	2" colour
<b>Internal memory</b>	None	<b>Internal memory</b>	4 GB
<b>Removable storage</b>	SD card	<b>Removable storage</b>	None
<b>Battery life</b>	2.5 hours	<b>Battery life</b>	2 hours
<b>Extra features</b>	Waterproof, shockproof	<b>Extra features</b>	None
<b>WiFi</b>	None	<b>WiFi</b>	None
Camcorder C		Camcorder D	
			
<b>Video format</b>	HD 720p	<b>Video format</b>	HD 1080p
<b>Optical zoom</b>	15x	<b>Optical zoom</b>	12x
<b>Digital zoom</b>	18x	<b>Digital zoom</b>	30x
<b>LCD screen</b>	3.5" colour	<b>LCD screen</b>	3" colour
<b>Internal memory</b>	32 GB	<b>Internal memory</b>	240 GB
<b>Removable storage</b>	SD card	<b>Removable storage</b>	SD card
<b>Battery life</b>	5 hours	<b>Battery life</b>	3 hours
<b>Extra features</b>	None	<b>Extra features</b>	GPS tagging
<b>WiFi</b>	Yes	<b>WiFi</b>	None



Some questions must be answered with a cross . If you change your mind about an answer, put a line through the box  and then mark your new answer with a cross .

1 Mitch wants to buy a camcorder.

(a) (i) Which of these camcorders has wireless connectivity? (1)

- Camcorder A
- Camcorder B
- Camcorder C
- Camcorder D

(ii) Which of these camcorders records at the highest resolution? (1)

- Camcorder A
- Camcorder B
- Camcorder C
- Camcorder D

(b) (i) Mitch wants to record himself rock climbing.  
Give **one** reason why Camcorder A is suitable. (1)

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(ii) Most of the camcorders have an LCD screen.  
State **one** use for the screen. (1)

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(iii) Mitch needs extra removable storage for the camcorder.  
State what he should buy. (1)

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(iv) Some camcorders have WiFi.

State what is meant by WiFi.

(1)

(v) Mitch wants to be able to record objects in the distance.

State which camcorder feature he will need.

(1)

(vi) Camcorder D has GPS tagging as an extra feature.

State what GPS tagging does.

(1)

(vii) State why GPS tagging is a useful feature.

(1)



(c) (i) Mitch wants to backup video files that he records.

Why is backing up important?

(1)

- A So that files are easy to find
- B So that files can be edited
- C So that files can be restored
- D So that no one can take the files

(ii) Mitch could use DVD or CD to backup his video files.

State **one** reason why DVD is more suitable.

(1)

(iii) Identify **one local** storage device, other than a DVD or CD drive, that could be used for backups.

(1)

(iv) Mitch could use online storage for his video files.

Give **two** advantages of using online storage rather than DVD.

(2)

1 .....

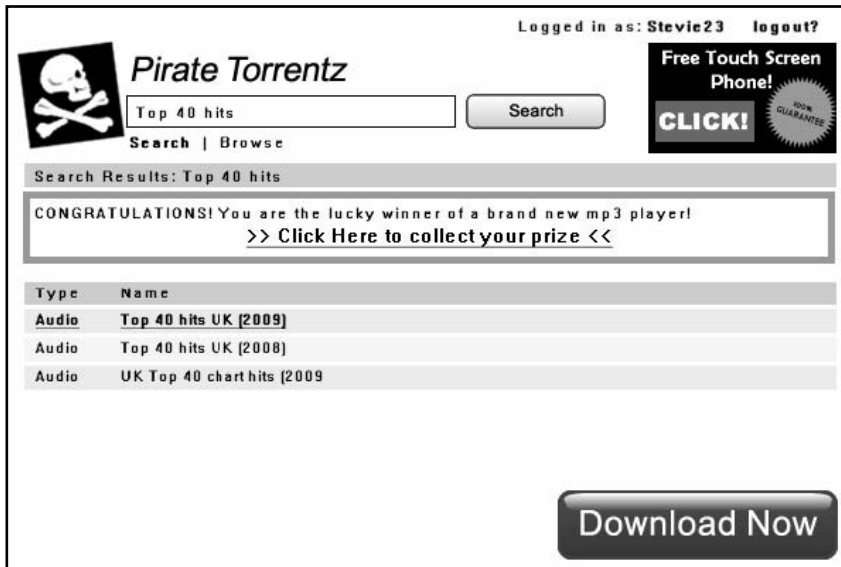
2 .....

**(Total for Question 1 = 14 marks)**



2 Stevie downloads music from the internet.

(a) She finds this site, which offers free music downloads.



(i) Stevie should **not** download songs from this site because:

(1)

- A** The songs take too long to download
- B** It is likely to be an illegal download site
- C** The file sizes are very large
- D** The site requires a login

(ii) State **one** possible drawback of downloading from this site.

(1)

(iii) Stevie needs to protect her computer from unsafe downloads.

State **one** way she can do this.

(1)



(b) Stevie logs into a site to buy some music. She sees this symbol in her browser.



(i) What does this symbol mean?

(1)

- A** The website is locked and cannot be used
- B** It is not safe to use the website
- C** Data on the site is encrypted
- D** There might be a virus on the website

(ii) State **one** other way that browsers display security information.

(1)

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(c) Stevie produces her own music tracks. She uploads her music to a forum site.

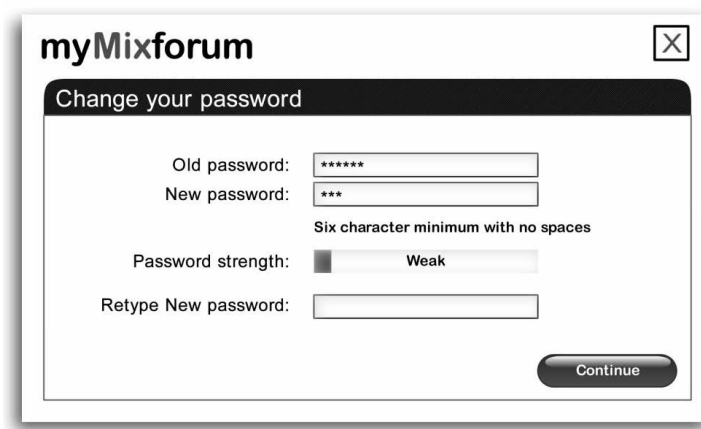
(i) Give **two** reasons for doing this.

(2)

1 .....

2 .....

Sometimes, when she logs on, the site asks her to change her password.



The site says that the password should be at least six characters long, with no spaces.

(ii) Identify **two** other features of a strong password.

(2)

1 .....

2 .....

(iii) List **two** things Stevie must do to keep her password secure.

(2)

1 .....

2 .....



(d) A user posts an offensive message about Stevie's music on the forum.

(i) What should Stevie do?

(1)

- A** Send an offensive message back
- B** Close her account on the forum
- C** Remove her music track
- D** Report the user to the site

(ii) The forum has a 'privacy policy':



Explain the purpose of a privacy policy.

(2)

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**(Total for Question 2 = 14 marks)**



3 Lee's dad has decided the family should join the digital age.

He has bought some new laptops.

(a) He wants to choose a broadband supplier.

They have a choice of four suppliers.

	Suppliers			
	FastWeb	BB Broadband	Lime Mobile	JetNetz
Download speed	20 mbps	8 mbps	6 mbps	30 mbps
Monthly usage	250 GB	Unlimited	15 GB	100 GB

(i) The supplier that offers the best bandwidth is:

(1)

- A FastWeb
- B BB Broadband
- C Lime Mobile
- D JetNetz

(ii) **BB Broadband** offers 'unlimited' monthly usage.

State what this means.

(1)

(iii) One supplier offers mobile broadband.

State **one** benefit and **one** limitation of mobile broadband.

(2)

Benefit

Limitation



(b) Lee sets up a wireless network for the family.

(i) Which of these must he have?

(1)

- A** Router
- B** Modem
- C** Dongle
- D** Internet connection

(ii) Give **two** reasons for having a wireless home network.

(2)

1 .....

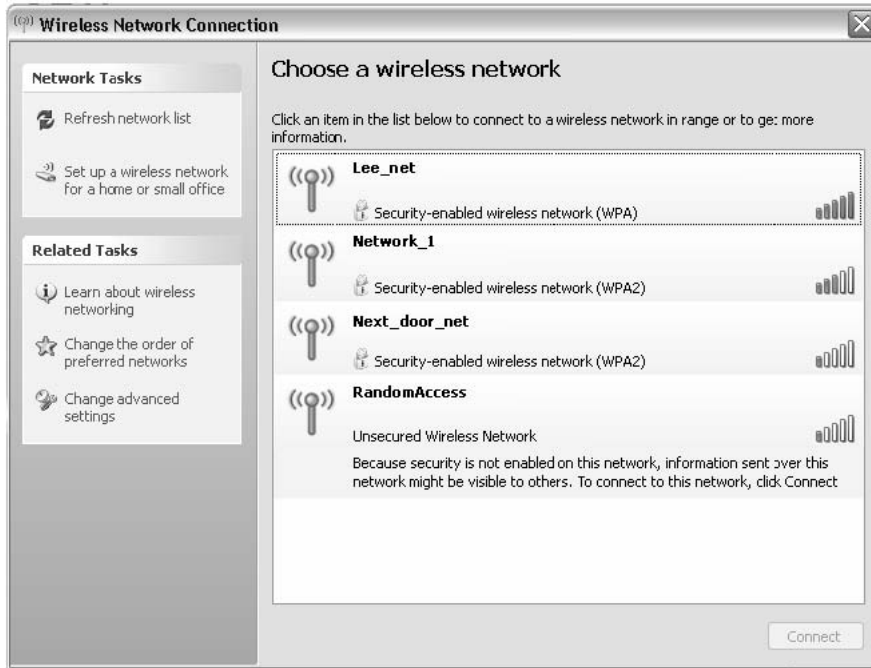
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2 .....

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(iii) Lee sees this pop up when he tries to connect to the wireless network.



The pop up displays the names of the wireless networks.

Explain what else it tells Lee about these wireless networks.

(3)

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(c) Lee recommends that open source software is installed on the laptops.

(i) Give **two** advantages of open source software over proprietary software. (2)

1 .....

2 .....

(ii) Give **one** disadvantage of open source software over proprietary software. (1)

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(iii) Explain how having access to the internet could enhance the family's daily lives. (3)

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**(Total for Question 3 = 16 marks)**



4 Stevie likes to buy clothes online.

(a) (i) Give **two** reasons why some stores operate online.

(2)

1 .....

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2 .....

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(ii) Stevie sometimes bids for goods on auction sites.

Describe **two** features of an online auction.

(4)

1 .....

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2 .....

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(b) (i) Stevie buys some T-shirts from an online store.

She is worried about entering her card details online.

State **one** other way she could pay online.

(1)

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(ii) Stevie finds that the T-shirts do not match the description on the website.

Describe her consumer rights.

(2)

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(iii) Stevie wants to inform others about her experience.

State **one** way that she could do this online.

(1)

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(c) (i) Many websites use online targeted marketing.

Describe **one** method that companies use to target online marketing at individuals.

(2)

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\*(ii) Many people shop online.

Discuss the benefits and drawbacks to the **customer** of shopping online.

(6)

Area with horizontal dotted lines for writing the answer.

**(Total for Question 4 = 18 marks)**



5 Mitch enjoys playing computer games.

(a) Mitch buys a new HD games console.

(i) State **one** other piece of equipment he will need to play games in HD.

(1)

(ii) Mitch thinks that games consoles are better than PCs for gaming.

State **two** advantages of using consoles, rather than PCs, for gaming.

(2)

1 .....

2 .....

(iii) Modern games consoles are multi-functional devices.

Apart from gaming, give **two** other uses for games consoles.

(2)

1 .....

2 .....

(b) Mitch and Stevie like to play games online with other users.

Explain how playing games online can help them develop social and other skills.

(3)

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(c) Mitch asks Lee to copy a game for him.

(i) State why Lee must not do this.

(1)

(ii) Many gaming companies allow users to download games straight to their console.

Give **one** advantage to the company of allowing this.

(1)

(iii) Explain **one** environmental benefit of downloading games rather than buying them on disk.

(2)





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