

Write your name here

Surname

Other names

Centre Number

Candidate Number

Edexcel GCSE

Information and Communication Technology

Unit 1: Living in a Digital World

Tuesday 15 January 2013 – Morning
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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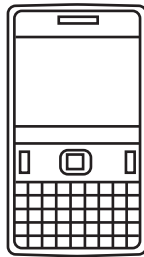

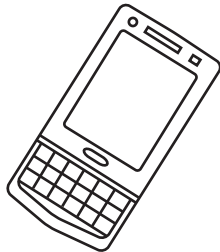
Answer ALL questions. Write your answers in the spaces provided.

Tom and his wife, Jasmine, own a small business called *iwant*. The business sells gadgets online. Tom spends a lot of his time away from home, meeting suppliers.

Tom and Jasmine make extensive use of ICT, especially mobile devices, in their business and private lives.



Use this information to answer Question 1(a).

Smartphone A		Smartphone B	
			
Processor speed	1.2 GHz	Processor speed	1 GHz
Storage	16 GB	Storage	Up to 64 GB
Screen size	4.65"	Screen size	3.5"
Camera	5 megapixel	Camera	8 megapixel
Connectivity	3G, HSPA, WiFi, NFC	Connectivity	3G, HSPA, WiFi
Talk time	7 hours	Talk time	8 hours
Weight	135 g	Weight	140 g
Smartphone C		Smartphone D	
			
Processor speed	1 GHz	Processor speed	1 GHz
Storage	Up to 32 GB	Storage	32 GB
Screen size	4.65"	Screen size	3.7"
Camera	12 megapixel	Camera	5 megapixel
Connectivity	3G, HSPA, WiFi	Connectivity	3G, HSPA, WiFi
Talk time	7 hours	Talk time	10 hours
Weight	117 g	Weight	130 g



Some questions must be answered with a cross ☒. Mark only one answer for each question. If you change your mind about an answer, put a line through the box ☒ and then mark your new answer with a cross ☒.

1 Tom wants to buy a new smartphone.

(a) (i) Which **one** of these has the highest resolution camera?

(1)

- Smartphone **A**
- Smartphone **B**
- Smartphone **C**
- Smartphone **D**

(ii) Which **one** of these has the best battery life?

(1)

- Smartphone **A**
- Smartphone **B**
- Smartphone **C**
- Smartphone **D**

(iii) List **two** features of a smartphone that make it more suitable to take on short journeys than a laptop.

(2)

1

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2

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(b) Smartphones allow the use of peripheral devices.

List **two** peripheral devices that could be used with a smartphone.

(2)

1

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2

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(c) Tom buys one of the smartphones. When he switches it on for the first time he is asked if he wants to share its location.



Give **one** benefit and **one** drawback to Tom of allowing his smartphone to always share its location.

(2)

Benefit

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Drawback

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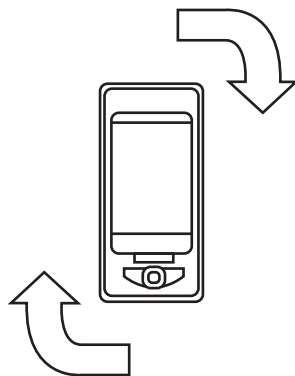


(d) Smartphones and other devices allow access to 'cloud computing' services.

State what is meant by 'cloud computing'.

(1)

(e) (i) When Tom turns his smartphone, a sensor rotates the image on the screen.



Which sensor is used to make this happen?

(1)

- A** Accelerometer
- B** GPS
- C** HDMI
- D** Touchscreen

(ii) The sensor can also be useful when playing games.

Give **one** other use for this sensor.

(1)



P 4 1 3 7 9 A 0 7 2 4

(f) Tom also has a tablet computer.

(i) Give **two** features of tablet computers that make them easier to use than desktop computers.

(2)

1

2

(ii) Tom decides to buy a 'wireless charging' mat for his smartphone and tablet computer.

Give **one** advantage of 'wireless charging'.

(1)

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(Total for Question 1 = 14 marks)



2 Tom visits a supplier to see a new product.

The supplier has some photographs of the new product on her digital camera.

(a) (i) Which **one** of these types of removable storage is the camera most likely to use? (1)

- A USB stick
- B Blu-ray disc
- C DVD
- D SD card

(ii) Describe how the images could be transferred from the digital camera to Tom's tablet computer. (2)

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(iii) New products are advertised on the *iwant* website. Tom uses his tablet computer to upload the images to the website.

State **two** factors that will affect the connection speed. (2)

1

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2

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(b) Tom emails Jasmine to let her know that the images have been uploaded.

(i) Jasmine's smartphone uses the IMAP protocol for email.

Describe the difference between IMAP and POP.

(2)

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(ii) Which **one** of the following is also an email protocol?

(1)

- A** SMTP
- B** HTTPS
- C** VoIP
- D** FTP

(c) (i) Jasmine gets an email about reducing *iwant's* energy usage.

Suggest **one** way the energy usage of a desktop computer could be reduced.

(1)

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(ii) Some campaigners suggest that computer use is damaging to the environment.

Give **one** way that computer use has had a **positive** effect on the environment.

(1)

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(d) Tom suggests *iwant* stores information using an online application.

One benefit is that the business will save money.

(i) Give **two** other benefits of using online applications.

(2)

1

2

(ii) Give **one** drawback of using online applications.

(1)

.....

(iii) Identify the legislation that covers customer data.

(1)

.....

(Total for Question 2 = 14 marks)



3 *iwant* has an online store.

(a) (i) The *iwant* website allows customers to pay by credit/debit card.

State **one** other online payment method.

(1)

(ii) When customers order goods from *iwant*, they see this screen.

Existing Customers

Email address

Password

[Forgotten password?](#)

Remember me

Sign in

New Customers

Ordering from us is easy, but to make your shopping so much easier, why not sign up for an account?

Create Account

Continue as Guest

Give **two** possible benefits to **customers** of creating an account with *iwant*.

(2)

1

2



(b) (i) When customers create an account, they are sent an email asking them to activate their account.

Explain why this happens.

(2)

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(ii) *iwant* is a secure website.

Which **one** of these is **not** a way of identifying that a website is secure?

(1)

- A** Message on website
- B** URL begins 'https://'
- C** Colour of address bar
- D** Padlock symbol

(iii) Some people are reluctant to shop online.

Give **two** drawbacks to the **customer** of shopping online rather than in the high street.

(2)

1

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2

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(c) Transactional data is collected when customers use websites.

(i) Give **two** examples of transactional data.

(2)

1

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2

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(ii) Give **one** way that transactional data is used.

(1)

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(d) Tom and Jasmine regularly update their website from home. They only have a wireless connection.

(i) In some parts of the house the signal is weak.

State **one** cause of weak signals.

(1)

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(ii) Tom and Jasmine use mobile devices.

Describe why wired connections may not be suitable when using mobile devices.

(2)

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(iii) Tom has seen a new printer which has a WiFi Direct facility. He could use this with his mobile devices.

Explain the benefits of connecting devices using WiFi Direct.

(2)

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(Total for Question 3 = 16 marks)



4 Jasmine is keen to make use of social networking sites, such as Facebook, to increase business.

(a) (i) Give **two** ways *iwant* could use social networking to promote its online business.

(2)

1

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2

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(ii) Social networking is one type of online community.

State **one** other type of online community.

(1)

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(iii) A customer is not happy about a product stocked by *iwant* and starts a campaign.

Describe how online communities can be used to support a campaign.

(2)

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(b) The *iwant* website allows users to add reviews of products that they have bought.

Ultimate R/C Copter



~~£29.99~~ RRP
£23.99
includes free delivery

In stock now.

Customer rating: ★★★★★
5.0 from 1283 reviews

Add to basket

(i) Explain why *iwant* displays the customer ratings and reviews for **products**. (2)

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(ii) *iwant* has an acceptable use policy for its review pages.
Describe why this policy is necessary. (2)

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(iii) *iwant* must comply with Distance Selling Regulations.

What is the **minimum** length of time *iwant* must give customers to return products bought online?

(1)

- A** 7 working days after order
- B** 7 working days after delivery
- C** 14 working days after order
- D** 14 working days after delivery

(c) *iwant* also sells products on auction sites.

(i) Give **one** benefit to **customers** of shopping on auction sites.

(1)

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(ii) Give **one** drawback to **customers** of shopping on auction sites.

(1)

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*(d) Many people blame online shopping for the demise of the high street.

Discuss why high street shops find it difficult to compete with online shops.

(6)

Area with horizontal dotted lines for writing the answer.

(Total for Question 4 = 18 marks)



5 Jasmine does a lot of her work from home.

(a) (i) Give **two** benefits to **Jasmine** of working from home.

(2)

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2

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(ii) *iwant* allows some employees to work from home.

Give **one** drawback to the **business** of allowing people to work from home.

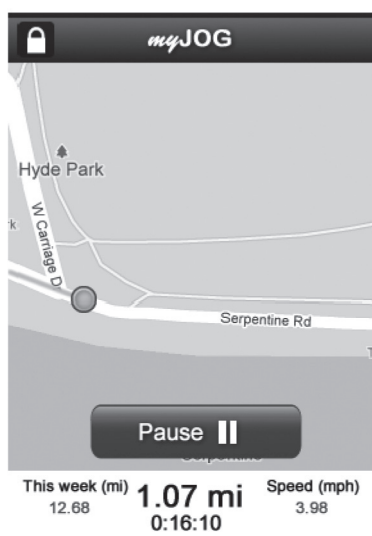
(1)

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(iii) Jasmine goes jogging at lunchtime. She uses a mobile application (App) on her smartphone to record her time and distance.



State **one** feature of her smartphone that this App may need to use.

(1)

(iv) Explain why mobile Apps have become so popular.

(3)

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(b) Tom and Jasmine often use VoIP to keep in touch with their employees.

(i) State **one** peripheral device they might need to make a VoIP call using a laptop.

(1)

(ii) Tom can also use his smartphone to make VoIP calls.

The call quality is often poor when he connects using 3G.

Give **one** reason for this.

(1)

(iii) Tom uses the chat (instant messaging) feature on a social network site to communicate with employees.

State **one** advantage of using chat rather than SMS.

(1)

(iv) The chat feature he uses is encrypted.

Describe what is meant by encryption.

(2)



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