Write your name here Surname	Other nan	nes
Pearson Edexcel GCSE	Centre Number	Candidate Number
Information Technology Unit 1: Living in a		unication
Wednesday 17 May 2017 Time: 1 hour 30 minute	•	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.
- Try to answer every question.
- Check your answers if you have time at the end.

P 4 8 7 5 3 A 0 1 2 0

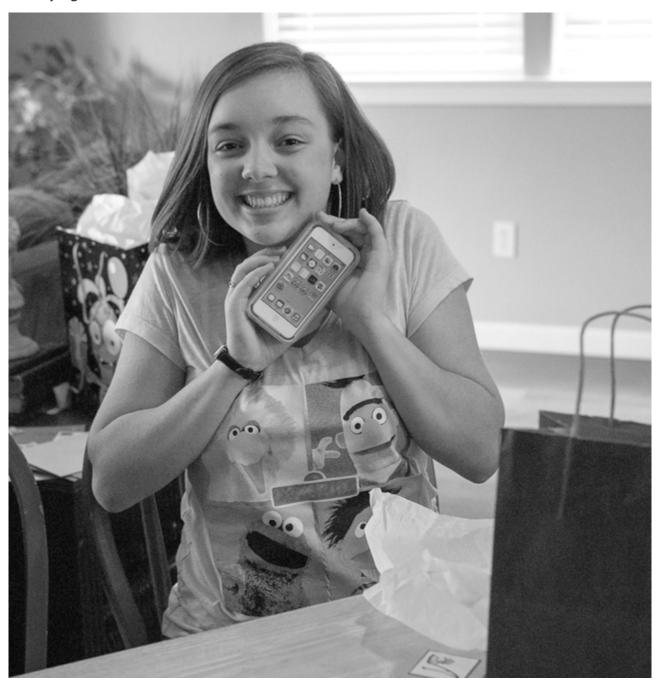
Turn over ▶



Answer ALL questions.

Amy uses digital devices to listen to music and to watch movies.

She is buying new devices for her bedroom.



(Source: www.flickr.com/photos/lorenkerns/14216838764/in/album-72157644737007744)

Use this information to answer Question 1(a)

Smart	t TV A	Smart	t TV B
Screen	Full HD	Screen	Full HD 3D
Connectivity	WiFi	Connectivity	USB 3.0
Energy consumption per year	100 kWh	Energy consumption per year	200 kWh
Tuner	Twin Satellite HD	Tuner	Satellite HD
Smar	tTV C	Smart	:TV D
Screen	4K	Screen	HD Ready
Connectivity	HDMI	Connectivity	SCART
Energy consumption per year	150 kWh	Energy consumption per year	75 kWh
Tuner	Freeview HD	Tuner	Freeview

Amy wants to buy a new smart TV.	
(a) (i) Which one of these has the best screen resolution?	(1)
Smart TV A	(1)
Smart TV B	
(ii) Which one of these would use the least electricity?	(1)
Smart TV A	(1)
Smart TV B	
Smart TV C	
Smart TV D	
(iii) Which one of these provides wireless connectivity?	(4)
Smart TV A	(1)
Smart TV B	
Smart TV C	
Smart TV D	
(b) Which one of these is a benefit of using an SD card?	(1)
A It provides fast internet access	(1)
☑ B It is easy to expand storage	
C It connects to peripherals	
■ D It is multifunctional	
(c) A smart TV can be connected to a router using a USB connection	on.
State one other type of connectivity that could be used to con	nect a smart TV to
a router.	



(d) Amy streams a video to her smart TV. Give two ways in which streaming is different from downloading.	
	(2)
(e) Amy can share the videos she likes with her friends.	
List two types of online community that she could use to do this.	(2)
	(2)
(f) Amy can use the internet to subscribe to online content.	
Give three online payment methods that Amy could use.	(2)
	(3)
(g) Devices can connect using wired or wireless methods.	
Explain one benefit of wireless connectivity.	(2)
	(2)
(Total for Question 1	= 14 marks)

(a) List tw	70 types of storage that she	e could use with her	smartphone.	(2)
(b) Amy a	dds 16 GB of storage to he	er smartphone.		
Part of	the specification of her sm	nartphone is shown	here:	
	Camera quality	File size	Number of photos	
	8 MP	2 MB		
	Iculate the maximum num		ould keep on the 16 GB of	1
ad	ditional storage. Show you	r working.		(2)
	ate one camera setting that	t Amy could change	to reduce the file size of	(1)
		t Amy could change	to reduce the file size of	(1)

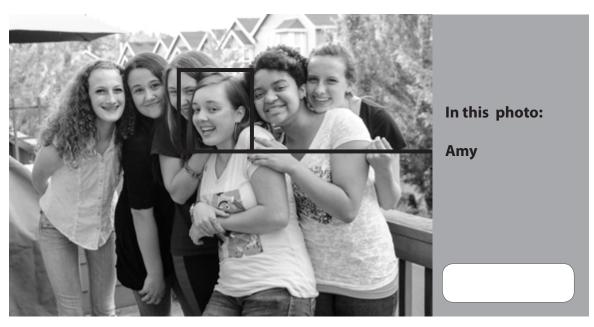


(c)	Amy has	many friends.	
	She uses	email to share her photos with them.	
	Which o	ne of these is used by some routers to send email to the internet?	(4)
		LICD	(1)
		USB	
		Bluetooth	
	\boxtimes	ADSL	
		GPS	
(d)	(i) Expla	nin one drawback of using email to share photos.	
			(2)
	(ii) A pov	decides not to use amail	
		decides not to use email.	
	Desc	ribe one other method she could use to share her photos.	(2)
(e)	Amy sets	s up an online profile.	
		one privacy setting that Amy should check before using her online	
	profi	e.	(1)
			(1)

(ii) Which **one** of these is a feature of a strong password?

(1)

- A Has fewer than four characters
- **B** Includes a mixture of upper and lower case letters
- □ Uses personal information
- **D** Contains only numbers
- (f) A friend 'tags' Amy in a photo.



(Source: www.flickr.com/photos/lorenkerns/14216855064/in/album-72157644737007744)

(i) Which **one** of these is a benefit of 'tagging'?

(1)

- A Amy can stream photos to her TV
- **B** Amy can get higher quality photos
- C Amy can group photos by date
- **D** Amy can be alerted when photos of her are posted
- (ii) State **one other** feature of a social network that Amy could use to communicate with friends.

(1)

(Total for Question 2 = 14 marks)



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3	•		tes with her friends to edit a video.	
	(a) (i) W	hich c	one of these could she use to collaborate with her friends?	(1)
		∃ A	User interface	(- /
	E	_	Search engine	
	_		Hosted application	
	_			
		ט ₪	Transactional data	
	(ii) Gi	ve tw	o advantages of working collaboratively.	(2)
				(2)
1				
2				
	(iii) Ex	plain	why working collaboratively may mean that Amy and her friends take	
	lo	nger t	to edit the video.	(2)
				(2)
	(b) Amy (uses h	er tablet computer to watch the video.	
	State	three	features of a tablet computer that make it a multifunctional device.	
				(3)
1				
2				
3				

		could use her smartphone to give her tablet computer access	;
	to the internet.		(3)
(d)	Amy's tablet comp	uter is password-protected.	
		r interface features that digital devices use to prevent	
	unauthorised acces	SS.	(2)
(e)	Amy uses proprieta	ary software on her tablet computer.	
		vantage of using proprietary software rather than open	
	source software	2.	(2)
		hese is a disadvantage of using proprietary software rather	
	than open sour	ce software!	(1)
	·	tary software can only be accessed with a password	
		tary software can only be used on proprietary systems	
	·	tary software is usually more expensive	
	□ Proprie	tary software can only be used with an internet connection	



- **4** Amy's parents are choosing a new Internet Service Provider (ISP).
 - (a) They compare these ISPs:

ISP name	Туре	Bandwidth	Data allowance
GreatNet	3G	17 Mbps	25 GB
NextNet	Fibre	100 Mbps	10 GB
BestNet	ADSL	38 Mbps	50 GB
QuickNet	4G	50 Mbps	15 GB

(i) NextNet provides a bandwidth of 100 Mbps.

Which **one** of these is Mbps a measure of?

(1)

- A Storage size
- B Latency
- C Download speed
- Processor speed
- (ii) Amy's family choose BestNet because they use 'on demand' services on their new TV.

Explain why BestNet is a better choice than NextNet.

(2)

(b) State **two** reasons why some people **cannot** access the internet.

(2)

1

2



Describe the purpose of a media server.	(2)
d) The family's home network includes a firewall.	
Which one of these is a firewall used for?	(1)
A Deleting data from a network	
■ B Restricting access to a network	
C Encrypting network data	
■ D Collecting transactional data	
e) Spyware is a threat to Amy's data.	
(i) Describe how spyware is a threat to her data.	(2)
(ii) List two other types of online threat to Amy's data.	(2)



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	Make a reasoned argument	to support this vie	N.	(4)
				(6)



(i) Explain why online banking services often use HTTPS.	(3)
	(3)
(ii) List two sorvices to sustamors that banks provide online	
(ii) List two services to customers that banks provide online.	(2)
(iii) State one service to customers that banks cannot provide online.	(4)
	(1)
Explain why customers' use of digital devices has changed the way that organisations operate.	
	(3)
Explain why customers' use of digital devices has changed the way that organisations operate.	(3)
	(3)
	(3)
organisations operate.	

(c) Explain why access to the internet should be equally available.	(3)

Discuss the impact of the use of the internet on h	ow people work.
2 is case the impact of the ase of the internet of the	(6)
	(Total for Question 5 = 18 marks)



