Examiners' Report

June 2016

GCSE ICT 5IT01 01

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Introduction

This is the eighth time that candidates have sat examinations for this unit, which requires them to explore how current and emerging digital technologies impact on the lives of individuals, organisations and society. This is an untiered paper that has been specifically designed so that easier questions are more prevalent earlier in the paper, becoming progressively more difficult later on. This paper has been designed to be accessible, so that candidates of all ability ranges will find questions that are both challenging and interesting throughout.

Candidates are introduced to a scenario, within which they can contextualise their responses. Additionally, candidates will find that 'command words' are used consistently in the paper to indicate the type of response expected. It is hoped that candidates will demonstrate the knowledge, understanding and skills required to be savvy users of ICT. Successful candidates often provided more detailed responses and, increasingly, candidates are providing more than just simple statements, including examples and reasons where expansions or explanations were required. In the extended questions, candidates demonstrated a better understanding of the requirement to analyse, evaluate, make reasoned judgements and present conclusions. Candidates should develop their use of subject specific language and should make better use of the Technology Update document, published every Spring, to clarify what technology they are expected to learn about.

Question 1 (c)

Most candidates gained the mark for this question, usually for stating 'router'.

(c) The nursery connects a media station to a WiFi network.

Name **one** device that is needed to connect a media station to a WiFi network.

(1)

Router

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Examiner Comments

A typical response that gained the mark.

Question 1 (d) (ii)

Most candidates gained one of the two available marks for this question, usually for stating that there had been an increase in users of the network.

Many candidates attempted to discuss the impact on bandwidth, but in a wide range of cases candidates discussed more about sharing the 'Wi-Fi', 'internet' or 'connection' as opposed to 'data' and 'bandwidth'.

This response gained 1 mark for 'The more people connect'.

(ii) Visitors connect to the nursery's network and browse the web.

Explain why the quality of video being streamed is reduced when visitors connect.

(2)

The more people connect, the video being streamed is being reduced more. Loads of people at the same time slows it down because all the internet is splitting up to each computer.

ResultsPlus
Examiner Comments

'The video...is being reduced' is a restate of the question and 'slows it down' / 'the internet is splitting up' is not enough for the second mark.

(ii) Visitors connect to the nursery's network and browse the web.

Explain why the quality of video being streamed is reduced when visitors connect.

(2)

When others use the network the bandwidth gets reduced meaning not as much data can be passed onto each divice.

ResultsPlus
Examiner Comments

This response gains 2 marks. 1 mark for 'when others use' ('share'). 2nd mark for '...the bandwidth gets reduced' ('limited bandwidth').
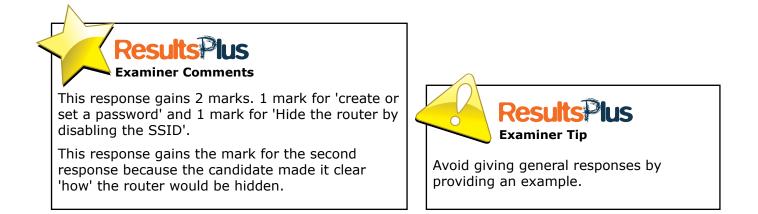
Question 1 (e)

Most candidates gained a mark for this question. Usually for stating 'password'. A number of candidates stated 'hide the network', but failed to relate this to 'network name' or 'SSID'.

(e) List **two** ways of stopping visitors from connecting to the nursery's network.

(2)

1 ~~Passa~~ Create or set a password

2 Hide the router by disabling SSID.

ResultsPlus
Examiner Comments

This response gains 2 marks. 1 mark for 'create or set a password' and 1 mark for 'Hide the router by disabling the SSID'.

This response gains the mark for the second response because the candidate made it clear 'how' the router would be hidden.

ResultsPlus
Examiner Tip

Avoid giving general responses by providing an example.

(e) List **two** ways of stopping visitors from connecting to the nursery's network.

(2)

1 security password.

2 don't advertise the wiFi

ResultsPlus
Examiner Comments

This response gains 1 mark for 'Security password'. 'Don't advertise the WiFi' is not enough to gain the mark for MP2 - Hide SSID.

Question 1 (f)

Most candidates gained both marks for this question. 'Earphones', 'speakers' and 'remote' were the most frequent correct answers. The most common incorrect answers were HDMI cables/ storage devices/ tablets (as, although they can be used, they are not peripheral devices).

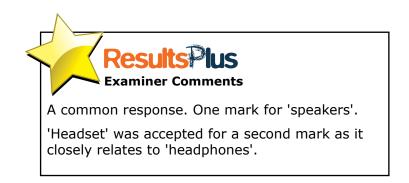(f) List **two** peripheral devices that could be used with the media station.

(2)

1 laptop

2 mobile phone

ResultsPlus
Examiner Comments

Although a mobile phone [or strictly a smartphone] can be used to remotely control other devices, it is, itself, not a peripheral device.

ResultsPlus
Examiner Tip

Candidates should be clear on what is meant by 'peripheral device'.

(f) List **two** peripheral devices that could be used with the media station.

(2)

1 Speakers

2 Headset

ResultsPlus
Examiner Comments

A common response. One mark for 'speakers'.

'Headset' was accepted for a second mark as it closely relates to 'headphones'.

Question 1 (g)

Few candidates gained a mark for this question. The majority of answers defined breach of copyright (e.g. 'stealing work from someone else') or what happens once you have breached it.

(g) The nursery is worried about copyright.

State what is meant by the term 'copyright'.

(1)

Copyright is a way form to protect content you have made so only the creator can use

ResultsPlus
Examiner Comments

'....protect content you have made' was enough to gain the mark.

(g) The nursery is worried about copyright.

State what is meant by the term 'copyright'.

(1)

copying something from someone else saying its your own or without the person who owns it permission.

ResultsPlus
Examiner Comments

Responses such as this were typical and did not gain the mark as it explains why copyright is needed/what is breaching the law, not what the term means.

Question 1 (h)

Just under half of all candidates gained a mark for this question, often for mentioning parental controls and filtering, where others repeated the question, with a common incorrect response being 'block' rather than stating how to block. Candidates often incorrectly suggested password protecting sites, adding age limits, firewalls or using encryption.

(h) Give **one** method the nursery could use to block inappropriate videos.

(1)

That is it is the inalviaterwore.

using a firewall can block out certain videos

ResultsPlus
Examiner Comments

A common incorrect response.

(h) Give **one** method the nursery could use to block inappropriate videos.

(1)

They can set up parental control to stop any unappropriate videos being accessed.

ResultsPlus
Examiner Comments

This response gained the mark.

Question 2 (a) (i)

Most candidates gained two marks for this question. Some candidates lost marks for stating 'phone' or 'mobile phone' instead of 'smartphone', or stating 'computer' on its own.

2   The nursery organises a trip for the children.

   (a) An email is sent to parents.

      (i) List **three** personal digital devices that parents could use to receive the email.

(3)

1   PC

2   ~~mobile phone~~   Smartphone

3   tablet.

ResultsPlus
Examiner Comments

This response gained all three marks. Note that this candidate realised that 'mobile phone' was an incorrect response and corrected it with 'smartphone'

ResultsPlus
Examiner Tip

Candidates must ensure that they are aware of the different types of personal digital devices.

2   The nursery organises a trip for the children.

   (a) An email is sent to parents.

      (i) List **three** personal digital devices that parents could use to receive the email.

(3)

1   Smartphone

2   Laptop / PC

3   Tablet

ResultsPlus
Examiner Comments

Another example of a three mark response.

Question 2 (a) (ii)

Most candidates did not gain the mark for this question, which required that they state 'IMAP'.
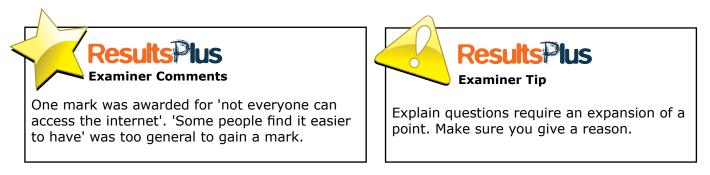
Question 2 (c)

Most candidates gained both marks for this question, which required candidates to use their knowledge of the digital divide.

(c) The web page includes a section for parents with details of future trips.

Explain why the nursery also provides leaflets with the same information.

(2)

They also provide leaflets because not everyone can acess the internet or some people find it easier to have.

ResultsPlus
Examiner Comments

One mark was awarded for 'not everyone can access the internet'. 'Some people find it easier to have' was too general to gain a mark.

ResultsPlus
Examiner Tip

Explain questions require an expansion of a point. Make sure you give a reason.

(c) The web page includes a section for parents with details of future trips.

Explain why the nursery also provides leaflets with the same information.

(2)

This are for people who don't have access to the internet due to various reasons such as they might be living in a rural area. Leaflets are a form of advertising, this might get more people to join the nursery.

ResultsPlus
Examiner Comments

This response gained both marks. The first mark was given for 'people who don't have access to the internet' and the second mark for a correct expansion (reason) - 'they might be living in a rural area'.

Question 2 (d) (ii)

Few candidates gained marks for this question. Most responses related to security of data or ease of use. The majority of the responses were framed as benefits to parents, not the nursery (the requirement for which was made clear in the question).

(ii) State **one** benefit **to the nursery** of using a third party payment system.

(1)

The nursery doesn't have to keep record of every transaction.

ResultsPlus
Examiner Comments

Not having to do this work is a benefit to the nursery.

(ii) State **one** benefit **to the nursery** of using a third party payment system.

(1)

It is cheaper for the nursery.

ResultsPlus
Examiner Comments

Another correct benefit to the nursery.

ResultsPlus
Examiner Tip

Where the question requires that a benefit / advantage be given in relation to a particular entity (the nursery in this case), the relevant section of the question will often be emboldened to add clarity for the candidate.

Question 2 (d) (iii)

Most candidates gained all three marks for this question. The most frequent incorrect responses were PIN / date of birth / email address and sort code.

(iii) List **three** card details required when paying online using a bank card.

(3)

1 _expiring date._

2 _name of the owner_

3 _security code_

ResultsPlus
Examiner Comments

This response gained all three marks. 'Security code' was accepted to mean CCV.

(iii) List **three** card details required when paying online using a bank card.

(3)

1 _The Card number_

2 _The Card holders name_

3 _The three digit code at the back of the card._

ResultsPlus
Examiner Comments

Another response that gained all three marks.

'three digit code' was accepted for CCV.

ResultsPlus
Examiner Tip

Although examiners will try to interpret your responses to allow them to award marks, please ensure you learn the correct technical language.

Question 2 (e) (ii)

Few candidates gained a mark for this question. Many responses related to PIN numbers or encryption and showed little understanding of what NFC is.

(ii) Give **one** feature of NFC payment systems that reduces the security risk to data.

(1)

There is a set limit of how much money you can make a transaction with, when using NFC.

ResultsPlus
Examiner Comments

This response gained the mark as it showed an understanding of the transaction limit found with NFC.

(ii) Give **one** feature of NFC payment systems that reduces the security risk to data.

(1)

You have to be in touching distance of the NFC to pay.

ResultsPlus
Examiner Comments

This response gained a mark for '...in touching distance of the NFC to pay'.

Question 3 (a)

Most candidates gained one mark for the question. Candidates gained both marks when focusing on the fact that the photoblog provided a single area to upload/view/share the images linking to the fact that an email needed to be sent to individual parents and therefore took longer. A number of candidates failed to gain marks through the lack of explanation in describing 'easily' or it being 'easier' without any clarification. Some responses incorrectly referred to geotagging, the idea that other family members could see the photos or the photos not being lost/deleted.

3   Laura and Pete are parents of a child who attends the nursery.

The nursery uses photoblogging to share photographs of trips with parents.

(a) Explain **one** advantage of using photoblogging rather than email to share photos.

(2)

The nursery doesn't have to send an email to every single parent which saves the nursery time.

ResultsPlus
Examiner Comments

This response gained both marks. It is a good linked response.

3   Laura and Pete are parents of a child who attends the nursery.

The nursery uses photoblogging to share photographs of trips with parents.

(a) Explain **one** advantage of using photoblogging rather than email to share photos.

(2)

Because they donot have to Send emails aut induvisoau. It saues time

ResultsPlus
Examiner Comments

Another appropriate, linked response.

3 Laura and Pete are parents of a child who attends the nursery.

The nursery uses photoblogging to share photographs of trips with parents.

(a) Explain **one** advantage of using photoblogging rather than email to share photos.

(2)

As with photoblogging, everyone can easily see it and access it whereas with email, you would have to send lots of seperate emails to the people who you want to see the photos

Question 3 (b)

Most candidates gained at least one mark for correctly identifying the fact that photoblogging could mean that others / strangers would be able to see the images of the children. Where candidates gained only one mark, they usually failed to mention sharing/ tagging etc. as part of their answer. Some candidates gained both marks by linking geotagging as the way strangers could find out the location of the children.

(b) Describe how photoblogging could create a risk to the children's privacy.

(2)

Photoblogging could create an issue as to privacy as there pictures are being shared for anyone to see.

ResultsPlus
Examiner Comments

This response gained both marks for linking 'sharing' with others / strangers seeing images of children.

(b) Describe how photoblogging could create a risk to the children's privacy.

(2)

Anyone can see the photos and if geotag is on then people they know where it was taken. This could be a risk because someone may can go looking for a child.

ResultsPlus
Examiner Comments

This response gained both marks as it linked GPS tagging to others / strangers knowing the children's location.

Question 3 (c)

Most candidates gained both marks for this question. Commonly, correct responses included asking for parents' consent and blurring the faces of the children.

(c) Give **two** actions the nursery should take to reduce the risk to the children's privacy, before uploading photographs.

(2)

1 Put the privacy settings on "contacts only".

2 Ask parents for consent.

ResultsPlus
Examiner Comments

A typical response that gained both marks.

(c) Give **two** actions the nursery should take to reduce the risk to the children's privacy, before uploading photographs.

(2)

1 ask For premition

2 only place appropriate photos

ResultsPlus
Examiner Comments

This response gained one mark as 'appropriate' was too vague to explain in what way they should be appropriate.

Question 3 (d) (ii)

Few candidates gained marks for this question. The most common correct response related to location data being collected. This was a question that demonstrated a gap in subject knowledge. Candidates seemed to interpret the question as referring to a situation in which a financial transaction was taking/had taken place, rather than transactional data in the context of the use of cookies to record data. Typical incorrect responses discussed sales data, name, email address etc. rather than transactional data that could arise from a visit to the blog. Many candidates gave responses that would have been appropriate for question 3(d)iii.

(ii) Give **two** examples of transactional data the nursery could collect.

(2)

1 _What web sites he visits_

2 _how long he was on the website for_

ResultsPlus
Examiner Comments

This response gained one mark for 'What websites he visits', which was just enough to relate to 'links followed'.

(ii) Give **two** examples of transactional data the nursery could collect.

(2)

1 _how often he visits the blog_

2 _what he looks at when on the blog_

ResultsPlus
Examiner Comments

No marks awarded.

An example of responses that can be worked out from the transactional data rather than what the data is itself.

Question 3 (d) (iii)

Most candidates did not gain the mark for this question. Transactional data was mistaken for 'transaction' and answers mainly consisted of monetary or payment information. Those that answered the question correctly typically said that the nursery could analyse what was popular, or use the data for targeted marketing or personalisation.

(iii) Give **one** way that the nursery could use the transactional data they collect from users.

(1)

To target marketing towards that user and users with similar purchasing habits.

(iii) Give **one** way that the nursery could use the transactional data they collect from users.

(1)

By creating a shop the The nursery Could use the data they collect to improve the site and make it better for the users.

Question 3 (e)

Most candidates gained at least two marks for this question. Many candidates missed out on a mark by not acknowledging that you needed to first download the image from the blog. Most candidates recognised that Bluetooth or USB was the most appropriate method for transferring to the tablet. Candidates failed to gain marks when they described how Pete could set up a personal hotspot to share his internet connection, or related their responses to the use of Cloud computing. Some candidates failed to gain a mark by being too general in the term used for the connection - 'cable' being common.

(e) Pete has a laptop **with** access to the internet.
Laura has a tablet computer **without** access to the internet.

Describe **one** method Pete could use to save an image from the photoblog to Laura's tablet computer.

(3)

He can connect the tablet ~~with~~ photastream the images. Which means that when he saves an image on his laptop, the image will automatically transfer to the tablet.

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Examiner Comments

This response gained 2 marks, for 'an image on his laptop', and 'transfer'. No mark was awarded for 'save', because it is not enough for 'Download' (and it is in the question). No mark was awarded for 'automatically', because 'Photostream' will require access to the internet to facilitate the transfer.

(e) Pete has a laptop **with** access to the internet.
Laura has a tablet computer **without** access to the internet.

Describe **one** method Pete could use to save an image from the photoblog to Laura's tablet computer.

(3)

Pete can access the internet and open the photoblog, he can then download the image on to his laptop He can send the image to Laura's tablet computer by using bluetooth and the image is sent to Laura's tablet computer.

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Examiner Comments

This response gained all 3 marks for 'download', 'the image on to his laptop' and 'send the image to Laura's tablet'. The candidate has also correctly indicated this could be done using Bluetooth.

Question 3 (f)

Most candidates gained one mark from this question, usually for answers relating to no access to social media, online shopping or online banking. Very few candidates stated positive implications.

A number of candidates misinterpreted the question and gave causes of people not having access to the internet e.g. religion, rural location (rather than implications, as required by the question).

Many candidates answered by stating things that could be done without the internet, but would simply be more difficult. i.e. 'research things' / 'do homework'. There were lots of vague answers e.g. 'can't communicate with people abroad' and 'can't browse anything'.

(f) State **three** implications of a lack of access to the internet.

(3)

1 Living in a poor country
2 Living in an isolated area.
3 Not having a good Internet Service provider.

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Examiner Comments

This response did not gain marks. The candidate has focussed on reasons for the lack of internet access rather than the resulting implications due to a lack of access.

(f) State **three** implications of a lack of access to the internet.

(3)

1 Can't access Social media
2 Can't ~~check~~ check online banking.
3 Can't online Shop.

ResultsPlus
Examiner Comments

A typical 3 mark response.

Question 4 (b)

Most candidates gained one mark from this question. Candidates often did not give linked responses. Where they did, they often linked connecting with WiFi to use VoIP. Marks were awarded for VoIP if candidates used brand names such as Skype.

Although the word 'speak' was emboldened in the question, many candidates gave answers relating to email or messaging, perhaps highlighting issues with exam technique.
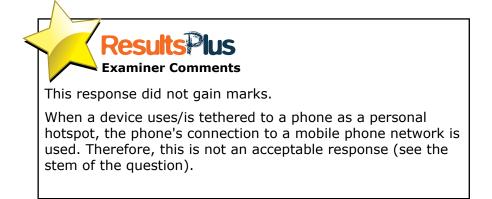
(b) The smartphone cannot access the mobile phone network.

Describe how nursery staff could use the smartphone with another type of network to **speak** to a parent.

(2)

Nursery staff could connect to a wifi network and can the smartphone

speak to a parent using a VOIP service for example Skype.

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Examiner Comments

A typical 2 mark response that mentions WiFi and VoIP.

(b) The smartphone cannot access the mobile phone network.

Describe how nursery staff could use the smartphone with another type of network to **speak** to a parent.

(2)

The nursery could use personal hotspot so they will have internet on the phone to contact the parents.

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Examiner Comments

This response did not gain marks.

When a device uses/is tethered to a phone as a personal hotspot, the phone's connection to a mobile phone network is used. Therefore, this is not an acceptable response (see the stem of the question).

Question 4 (c) (i)

Most candidates did not gain marks for this question, often because they related to having access from anywhere in the world or simply commented upon it being a resource for finding things out. Many candidates commented incorrectly that the world wide web is a search engine. There were lots of responses that used everyday language to describe what the internet and world wide web did. A lot of candidates talked about making 'a connection' to the web, rather than the web being 'connected' sites.

There seemed to be confusion between this question and Q4(c)ii, showing a definite lack of understanding of the difference between the world wide web and the internet.

(c) The smartphone can access the world wide web on the internet. △ (call)

(i) State what is meant by the term 'world wide web'.

(2)

A network of web pages/sites connected by means of the internet. Can be accessed by any device connected to internet but is not the same as the internet

ResultsPlus
Examiner Comments

This response gained both marks.

(c) The smartphone can access the world wide web on the internet.

(i) State what is meant by the term 'world wide web'.

(2)

The world wide web is a way of connecting to websites for entertainment, music, gaming, the news and lots more.

ResultsPlus
Examiner Comments

This response gained one mark for 'websites for entertainment...' 'a way of connecting' is not the same as 'connected', so not enough to gain the second mark.
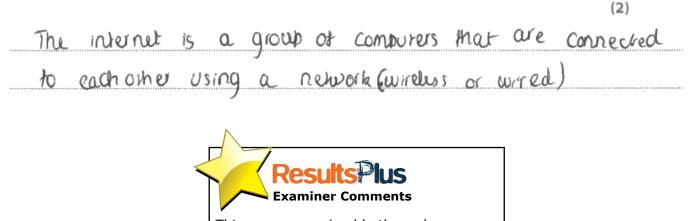
Question 4 (c) (ii)

Most candidates did not gain the mark for this question. Many responses were general e.g. 'It's where you search things up', 'It's another name for the web'.

Again, there seemed to be confusion between this question and Q4c(i), showing a definite lack of understanding of the difference between the world wide web and the internet.

(ii) State what is meant by the term 'internet'.

(2)

The internet is a group of computers that are connected to each other using a network (wireless or wired)

ResultsPlus
Examiner Comments

This response gained both marks.

(ii) State what is meant by the term 'internet'.

(2)

a huge network that links networks of computers together all over the world.

ResultsPlus
Examiner Comments

Another two mark response, showing understanding of the fact that the internet is a network of networks.

Question 4 (e)

Most candidates gained the mark for this question, usually for answers relating to the screen or storage. Common incorrect answers were 'processor', '3G' / '4G' or 'speed'.
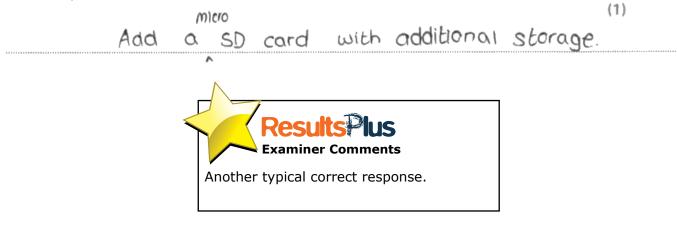
(e) Give **one** feature of a smartphone that could be upgraded to enhance the user experience.

(1)

The screen so resolution ⇒ it would make everything on the phone a lot clearer

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Examiner Comments

A typical correct response. Screens can be upgraded in modular smartphones.

(e) Give **one** feature of a smartphone that could be upgraded to enhance the user experience.

(1)

                    micro
Add a SD card with additional storage.

ResultsPlus
Examiner Comments

Another typical correct response.

Question 4 (f)

Most candidates gained one mark for this question. Most candidates knew what wearable computers were and many gave brand names. Most candidates knew they monitored things such as heart rate or steps taken. Some candidates identified that the devices are connected with some identifying how this connection was made. Some candidates incorrectly referred to connecting to and downloading from PC's. A number of responses incorrectly focussed on RSI and eyesight problems of the users.

(f) Smartphones can be used with wearable computers.

Describe **one** way that smartphones can be used with wearable computers to monitor the health and fitness of individuals.

(3)

Smart phones are now able to be connected to fitness devices such as 'fitbits' by sending the information of the wearable computers to the phone over bluetooth or connecting in order to send health and fitness information such as the amount of exercise or heart rate of the person so it can then be monitored for data in order for them to check their health and fitness easily.

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Examiner Comments

This response gained all three marks for 'connected...', 'over bluetooth', 'information such as... heart rate'.

(f) Smartphones can be used with wearable computers.

Describe **one** way that smartphones can be used with wearable computers to monitor the health and fitness of individuals.

(3)

Wearable computers will be able to sense how many steps you have taken and how far you have walked to, which is helping us know how many calories you have burnt off.

Question 4 (g)

Most candidates gained four marks for this question. Many candidates were able to discuss the impact of digital devices on the environment and presented their arguments in a well organised, planned and justified manner. Most responses discussed less use of paper, less need to travel and CO2 emissions, pollution, recycling, global warming, electricity (or energy) and landfills giving both advantages and disadvantages. Some candidates over-emphasised the use of digital devices without referring to the environment, particularly using digital devices for socialising, texting, using social media, depleting social skills, impact on lifestyle and living environment, not outdoor environment. Some candidates failed to comment upon the environment, simply discussing the advantages / disadvantages of digital devices. A significant minority of candidates incorrectly discussed the harmful effects of radiation produced by devices and some confused environment with personal health.

*(g) The use of smartphones and other digital devices has an impact on the environment.

Discuss the positive and negative impacts on the environment of the use of digital devices.

(6)

Pos	Neg
•Less ✓ resources (paper)	•More ✓ electricity
•Don't have to pollute (delivering mail) ✓	•Cutting down trees •pollution ✓

There are many positive and negetive impacts on the enviroment due to the use of digital devices. One positive impact is less resources are needed when communicating over the Internet. For example, you don't need to write a letter (paper) to deliver a message, instead you can call or write an email. This also saves a lot more time, because people don't have to wait to recieve a letter. Another positive is that, you have less pollution, because ~~due to~~ ~~to~~ people don't have to drive to deliver post, which increases how much CO2 is going into air. However, the constant increase in the use of digital devices increases the amount of ~~fossil~~ electricity used, therefore increasing burning of fossil ~~fuel~~. This is a negetive, because the burning of fossil fuels increase the rate of the greenhouse effect. Also, trees and other habitats of animals are being destroyed, ~~too~~ because companies are building factories to increase the produce of digital devices. This can lead to the extinction of some speecies, who may

not be able to adapt to new enviroments. Overall, the digital devices have a positive and negetive impact on the enviroment, as it can lead to the decreased use of one resource, but the increased in another.

*(g) The use of smartphones and other digital devices has an impact on the environment.

Discuss the positive and negative impacts on the environment of the use of digital devices.

(6)

The use of smartphones and other digital devices has had some positive impacts on the environment. Because of using them, people can access data, forms and documents online, or just on their devices, and less paper is being used for printing books and forms. Also, because people can order clothes and food, and can work from home via their digital devices, people have to travel less, creating less CO_2 emissions from their cars.

However, the use of smartphones and other digital devices has also had some negative impacts. Although less paper is being used, far more unrenewable resources are being used. For example, because the cases and components are made of plastic and metal, our use of crude oil has increased. Along with this, because despite people travelling less, CO_2 emissions have increased because of the energy that is required to make the digital devices, and the fuel we use when bringing them in from other countries by plane. Also, because of the use of digital devices, many countries now have a more throwaway society, and the amount of packaging that is thrown away with digital devices is huge.

Overall, I think digital devices have had more negative environmental impacts because of how many are made each year.

*(g) The use of smartphones and other digital devices has an impact on the environment.

Discuss the positive and negative impacts on the environment of the use of digital devices.

(6)

plan

tve	−ve
Less paper	Uses electricity
~~knowledge~~ Less travel.	sat navs → more driving

One of the biggest advantages to the environment of using digital devices is that it dramatically reduces the amount of paper that we need to use. This is good for the environment because it reduces the amount of trees that we need to cut down. Another positive impact is that due to an increase in ~~sociat~~ internet accessibility and software such as Skype, we can now call people on the other side of the world meaning we don't need to travel to them. This reduces the amount of pollutants released into the environment as a result of travelling.

The negative impact is that ~~using~~ the increased use of smartphones and devices means we need to produce lots of electricity to power them. Burning fossil fuels to produce electricity contributes to climate change. Due to an increased use of mapping apps and GPS, more and more people now favour driving over walking, which is a bad thing for the environment. Finally, the production of digital devices requires lots of material and electricity— both of which are in short supply, putting a strain on the environment. If people don't recycle their devices they may pollute the environment with the dangerous chemicals inside ~~devices~~ them.
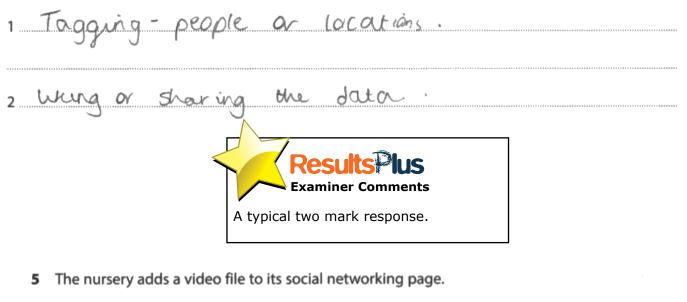
ResultsPlus
Examiner Comments

An exemplary response that gained all six marks.

Question 5 (a)

Most candidates gained both marks for this question, with the majority of candidates correctly identified liking, sharing, commenting or tagging. Candidates did not gain marks when they gave examples of social media such as Facebook or Youtube.

5 The nursery adds a video file to its social networking page.

    (a) Give **two** features of a social network that could be used to publicise the video.

(2)

1 Tagging - people or locations.

2 liking or sharing the data.

ResultsPlus
Examiner Comments

A typical two mark response.

5 The nursery adds a video file to its social networking page.

    (a) Give **two** features of a social network that could be used to publicise the video.

(2)

1 Share feature

2 and on the like, and comment feature

ResultsPlus
Examiner Comments

This response gained both marks. First mark is for "share" in the first response. Second mark is for "like" in the second response. Note that a mark would have been awarded for "comment" in the second response, but only two marks are available and these have already been awarded.

Question 5 (c)

Most candidates gained both marks, usually for stating two of 'report' 'block' and 'delete'. Some candidates did not gain marks as they repeated the same point e.g. 'block the user' and 'block the comment'. Some candidates incorrectly suggested contacting the user directly.

(c) The nursery receives inappropriate comments from a social network user.

Give **two** ways in which the nursery should respond.

(2)

1 Block the users who inappropriatly comment from seeing any more posts

2 remove the comments

ResultsPlus
Examiner Comments

A typical response that gained both marks.

(c) The nursery receives inappropriate comments from a social network user.

Give **two** ways in which the nursery should respond.

(2)

1 They should block him.

2 Tell the police

ResultsPlus
Examiner Comments

This response gained both marks 'Tell the police' is enough for 'Report'.

Question 5 (d)

Most candidates gained all three marks for this question. Candidates obviously knew the steps required to reset a password and could correctly recall them. Some candidates incorrectly provided responses on what they would have to do if they had forgotten their password to the local network. Some candidates did not gain marks because they described how to create strong password.

(d) The nursery manager has forgotten their password for the social network.

Describe a process that could be used to reset a password securely.

(3)

They can report their password as being forgotten, in which they will have to enter a code in which they will recieve in a email, in which they can then change their password

ResultsPlus
Examiner Comments

Three marks were awarded for this response for 'they can report their password as being forgotten', 'they will have to enter a code' and 'they will receive in an email'.

Question 5 (e)

Most candidates only gained one mark for this question, usually for giving a response related to it being unprofessional or distracting. Many candidates failed to elaborate on those points as to why or give a consequence, or link it to the nursery. A number of responses were concerned about images of children being uploaded onto the social networking site and security issues with geotagging. Many responses mentioned location being tracked - and the risk of stalking, with many candidates making reference to viruses/hacking.

(e) Some staff check their social networking profiles at work.

Explain **two** reasons why staff are asked **not** to do this.

(4)

1. because they're not actually working and doing their job so something preventable could happen to one of the children but she's on her social network.

2. People their could gain information on the person by either looking over her shoulder or she leaves it logged on.

ResultsPlus
Examiner Comments

2 marks were awarded for the first response as there was enough to imply distraction. 1 mark was awarded in the second response as, although there was enough to imply that a profile is visible, 'people' was not enough to gain the linked mark. The responses had to state children/parents/ colleagues or synonyms of these to gain both marks.

(e) Some staff check their social networking profiles at work.

Explain **two** reasons why staff are asked **not** to do this.

(4)

1 Could be a distraction away from the children and cause a health and safety risk.

2 Could be deemed unproffesional as ~~there~~ there could be content on the social media network the children shouldn't see.

ResultsPlus
Examiner Comments

All marks awarded. Two marks were awarded for the first (linked) response. Only one mark would have been awarded for 'unprofessional', with no linked part for second mark. However, the second half of the second response 'there could be content (1)... the children shouldn't see' (1) was awarded two marks as it is linked.

(e) Some staff check their social networking profiles at work.

Explain **two** reasons why staff are asked **not** to do this.

(4)

1 The staff could be easily distracted by their social networking site and therefore ignore what is going on around them. Therefore they need to be focused on their job at all times to care for the children and to avoid accidents.

2 The social networking profile could contain something inappropriate or unprofessional this could lead to another member of staff seeing it or a child. this would have a bad influence on the children.
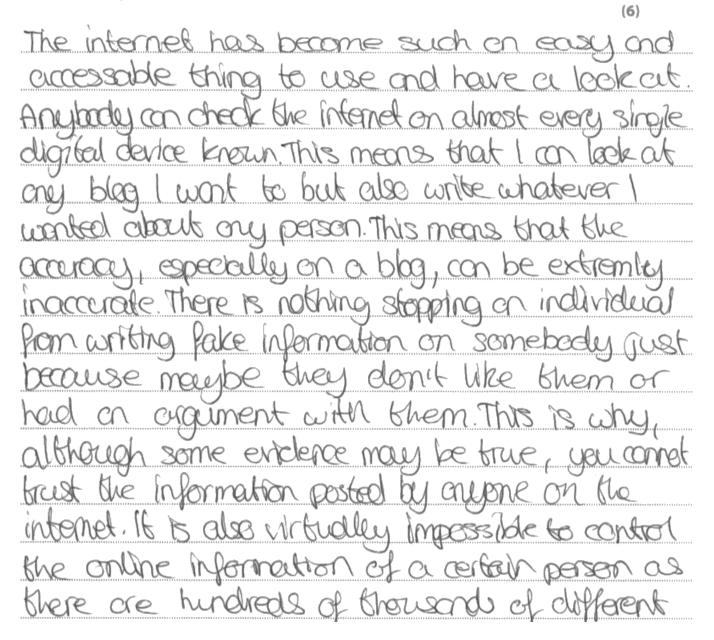
Question 5 (f)

Most candidates gained three marks for this question, with many candidates demonstrating an understanding of the implications of the widespread use of the internet on the availability, accuracy and control of online information about an individual. Some candidates discussed digital footprints and how something posted years ago can impact on individuals' lives. In the majority of cases, candidates were able to discuss how comments on social media etc. could impact on job opportunities and be taken out of context. Few candidates wrote about the positive of being able to promote yourself through the internet. Where candidates were less successful, they tended to be too general and discuss cyber-bullying, access to criminal records etc. and not link it to job opportunities. Many candidates mentioned the Data Protection Act, but incorrectly linked it to privacy.

*(f) The nursery advertises for a new member of staff.

The nursery manager searches online for information about people who apply and finds a comment on a blog that worries her.

Discuss the impact of the widespread use of the internet on the availability, accuracy and control of online information about an individual.

(6)

The internet has become such an easy and accessable thing to use and have a look at. Anybody can check the internet on almost every single digital device known. This means that I can look at any blog I want to but also write whatever I wanted about any person. This means that the accuracy, especially on a blog, can be extremly inaccurate. There is nothing stopping an individual from writing fake information on somebody just because maybe they don't like them or had an argument with them. This is why, although some evidence may be true, you cannot trust the information posted by anyone on the internet. It is also virtually impossible to control the online information of a certain person as there are hundreds of thousands of different

there are hundreds of thousands of different blogs where people can write whatever they want about eachother. Some blogs may have certain restrictions but many of them won't meaning people are free to write what they want.

*(f) The nursery advertises for a new member of staff.

The nursery manager searches online for information about people who apply and finds a comment on a blog that worries her.

Discuss the impact of the widespread use of the internet on the availability, accuracy and control of online information about an individual.

(6)

The widespread use of the internet means that information about individuals is very easily available, not only to hackers. Because of social media, most people can see things about an individual from their name and address to where they were and what they were doing last Saturday.

However, this information is not always accurate, because it is easy for people to put an age, their name and even picture that they're not. It is also very difficult to check if information is accurate, because most of the time you can't see the person.

The control of online information about an individual is also very bad because almost everyone has access to information, and once something is put online, or told to someone over social media, it can't be deleted. Although on the surface it can be got rid of, it is always there, and private, hackers and sometimes even normal people can access that information.

Overall, I think that the widespread use of the internet has had a huge impact on the availability, accuracy and control of information about an individual.

*(f) The nursery advertises for a new member of staff.

The nursery manager searches online for information about people who apply and finds a comment on a blog that worries her.

Discuss the impact of the widespread use of the internet on the availability, accuracy and control of online information about an individual.

(6)

Widespread use of the internet means all people can use multiple different social networking sites and share and comment. This can have a bad impact as when ~~potential employers~~ employers research your profile all your previous posts and comments come up. If a comment is found by the employer which is negative it could cause them to not employ you as they would not be able to trust you. However, researching your profile could ~~show~~ portray you positively, and have a good impact if you have shared respectable things. An online individual has control of the content they post, however, once it has been posted it cannot be retrieved and employers will be able to view this once it has been sent. Some things people post online may no longer accurately represent them as they made that post a long time ago. Yet people who research our profiles will not be aware of this and ~~this~~ they could give an inaccurate judgement on us. However, widespread use of the internet can have a good impact as it allows us to show our good traits and previous experiences, for example travelling. By showing ourselves in multiple ways online our employer can get a well rounded perspective of us.

*(f) The nursery advertises for a new member of staff.

The nursery manager searches online for information about people who apply and finds a comment on a blog that worries her.

Discuss the impact of the widespread use of the internet on the availability, accuracy and control of online information about an individual.

(6)

- allows for more transparency

- less privacy

On one hand, widespread use of the internet with regards to an individual may mean employers can assess who is more suitable for a position based on online behaviour - which could prevent people accessing a job for which their behaviour is not appropriate for - this could be found on social media websites or through a search of the person. ~~However, this information is unlikely to~~ This availability of information means people can ~~be~~ be researched rather than taken at face value. However, this may be unfair - as it blurs the line between work and leisure, and prevents people from seperating work and social lives. The accuracy of information may also be suspect, as viewers have no guarentee the source is reliable. This means people may be penalised for actions that didn't happen or have no place in discussion offline.

Overall, the widespread use of the internet and access to information means that people need to control what is available to be viewed by who, and puts pressure on people to control their online activity - which isn't necessarily a bad thing, as it will reduce negative speech.

This response gains 5 marks. It links all three points to consider impact. Availability ('people can be researched rather than taken at face value') links to impact 'unfair as blurs line between work and leisure'. Accuracy ('no guarantee the source is reliable' is linked to 'people may be penalised for actions that didn't happen'). Control ('people need to control what is available to be viewed'). This certainly meets the descriptor for a Level 2 response and, although it does not clearly link into the widespread use of the internet, when looked at holistically, the discussion of the 3 areas above places it in the top mark band. 5 marks awarded provisionally. As the mark is at the bottom of a mark band, QWC must not be considered. A final mark of 5 has been awarded. (The QWC would have met the descriptor for Level 3 if permitted).

*(f) The nursery advertises for a new member of staff.

The nursery manager searches online for information about people who apply and finds a comment on a blog that worries her.

Discuss the impact of the widespread use of the internet on the availability, accuracy and control of online information about an individual.

(6)

Limiting the information one has access to would about an individual is extremely hard to do. Due to the massive number of people present on the internet, if a inappropriate or private piece of information is leaked, it can be rapidly shared and not be contained, leading to impacts on an individual individuals working, or ability to get a job. Hackers are also present on the online internet users who are very difficult to track down due to the internets large user base and can decrypt previously encrypted information such as emails or bank account details. Another issue is the widespread use of GPS devices within personal devices allowing new internet users to see a location of another through sites such as Facebook which use social networking. Information present on the internet is often quite difficult to detect whether its accurate or not, as the information put onto the internet is generally anonymous, meaning their users can often say or do unacceptable/illegal things more often which could be placed on another individual, causing stress and psychological damage.

This response gains 5 marks. Remember - the context of the question is not required to gain marks. It includes all three points and highlights impacts relevant to the widespread use of the internet. Availability and control ('due to the massive number of people... leaked information can be rapidly shared and not be contained') impact is then considered ('leading to impact on an individual's work life or ability to get a job'). 'Large user base' is then linked to the difficulty in tracking hackers who can decrypt emails or bank details (control). Although GPS does not use the internet, the devices often do - to provide the maps upon which the GPS location is positioned for the user. Therefore, the section related to how users can see each others' location through social networking is valid and related to availability of information and its control (privacy). Accuracy (or reliability in this case) is considered 'information is generally anonymous' and is linked to the impact - 'causes stress...'. This certainly meets the descriptor for a Level 3 response. 6 marks awarded provisionally. As the mark is at the top of a mark band, QWC must be considered. The QWC does not meet the descriptor for Level 3, due to a number of grammatical errors. A final mark of 5 has been awarded.

Paper Summary

Based on their performance on this paper, candidates are offered the following advice:

- Continue to develop the good practice of expanding and explaining answers using examples and reasons, where more than a simple statement or list is required.

- Respond with the context of the question in mind.

- Do not repeat responses when more than one example/reason is required.

- Identify key words and command words in the question to ensure responses reflect what the question asks.

- Practise a range of extended questions, not just balanced arguments.

- Allocate time to plan the two six-mark extended questions.

Grade Boundaries

Grade boundaries for this, and all other papers, can be found on the website on this link:

http://www.edexcel.com/iwantto/Pages/grade-boundaries.aspx