

Surname	Centre Number	Candidate Number
Other Names		0



GCSE

4333/01



INFORMATION AND COMMUNICATION TECHNOLOGY

UNIT 3: ICT in Organisations

THURSDAY, 17 MAY 2018 – AFTERNOON

1 hour 30 minutes

For Examiner's use only		
	Maximum Mark	Mark Awarded
Total	80	

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010001

INSTRUCTIONS TO CANDIDATES

Use black ink or black ball-point pen. Do not use pencil or gel pen. Do not use correction fluid.

Write your name, centre number and candidate number in the spaces at the top of this page.

Answer **all** questions.

Write your answers in the spaces provided in this booklet.

If you run out of space, use the continuation page at the back of the booklet, taking care to number the question(s) correctly.

INFORMATION FOR CANDIDATES

The number of marks is given in brackets at the end of each question or part-question.

Quality of written communication will be assessed in question **11(b)**.



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Answer all questions.

1. (a) Tick (✓) the correct boxes to show whether the following devices are used for Input or Output. [4]

Device	Input	Output
 Projector	1 <input type="checkbox"/>	2 <input type="checkbox"/>
 Mouse	3 <input type="checkbox"/>	4 <input type="checkbox"/>
 Printer	5 <input type="checkbox"/>	6 <input type="checkbox"/>
 Speakers	7 <input type="checkbox"/>	8 <input type="checkbox"/>

- (b) Other than the devices named above, name **two** different devices that are **only** used for input or output. Tick (✓) the correct boxes to show if they are used for Input or Output. [4]

Device	Input	Output
.....	<input type="checkbox"/>	<input type="checkbox"/>
.....	<input type="checkbox"/>	<input type="checkbox"/>

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2. (a) Other than less physical storage space, give **two** advantages of using computers to store and process data. [2]

Advantage 1:

.....
.....

Advantage 2:

.....
.....

(b) Give **two** disadvantages of using computers to store and process data. [2]

Disadvantage 1:

.....
.....

Disadvantage 2:

.....
.....



3. (a) Use the words listed below to complete the sentences describing the objects that can appear in a presentation. [3]

Bookmark Video MP3 Image

A is a link from one part of a presentation to another.

A JPEG is a type of file.

A is a collection of moving pictures.

(b) State what is meant by the following terms:

(i) Hotspot. [1]

.....
.....

(ii) Transition. [1]

.....
.....

(c) Give **three** advantages and **three** disadvantages of using presentation software. [6]

Advantage 1:

.....

Advantage 2:

.....

Advantage 3:

.....

Disadvantage 1:

.....

Disadvantage 2:

.....

Disadvantage 3:

.....

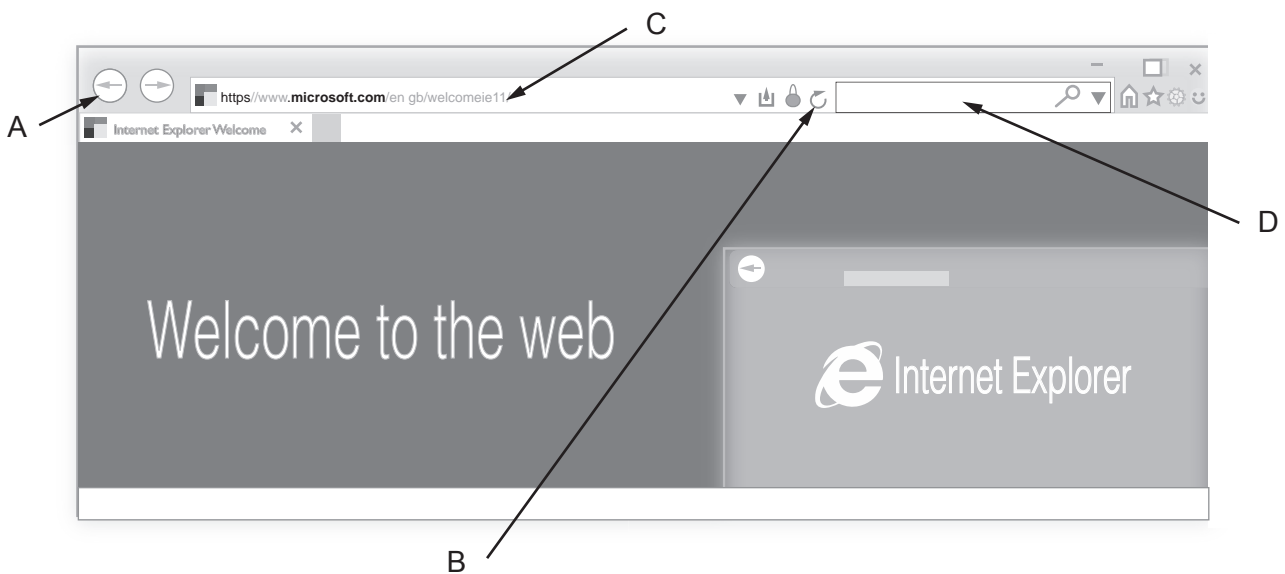
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4. (a) Below is an image of a web browser. [8]

In the table below, give the name and purpose of each of the labelled features.

	Name of feature	Purpose
A		
B		
C		
D		



(b) When a user creates a new search in a search engine their eye is first drawn to the top left-hand side of the search results.

State what this area is known as. [1]

.....



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5. Animators use a number of different techniques.

(a) Describe in detail what is meant by **Key Frame** animation. [3]

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.....

(b) Describe what is meant by **Onion Skinning**. [2]

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.....

(c) State what is meant by **Persistence of Vision**. [1]

.....

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.....



6. ICT uses multimedia software.

(a) Tick (✓) the boxes to show whether the following statements are **True** or **False**. [3]

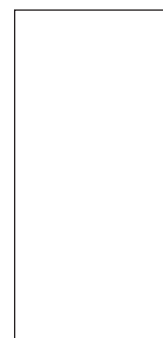
Statement	True	False
A standard format for compressed video files is MPEG.	1 <input type="checkbox"/>	2 <input type="checkbox"/>
.wav files are not compressed.	3 <input type="checkbox"/>	4 <input type="checkbox"/>
A compressed file will be transmitted faster over a network.	5 <input type="checkbox"/>	6 <input type="checkbox"/>

(b) Name four standard tools used in the drawing below to change the first rectangle into the other three rectangles [4]

First rectangle



Other three rectangles



Standard tool 1:

Standard tool 2:

Standard tool 3:

Standard tool 4:



(c) Give **one** disadvantage of compressing files.

[1]

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7. Expert systems are widely used in car garages.

(a) Give **two** advantages to a garage of using an expert system. [2]

Advantage 1:

.....
.....

Advantage 2:

.....
.....

(b) Give **two** disadvantages to a garage of using an expert system. [2]

Disadvantage 1:

.....
.....

Disadvantage 2:

.....
.....



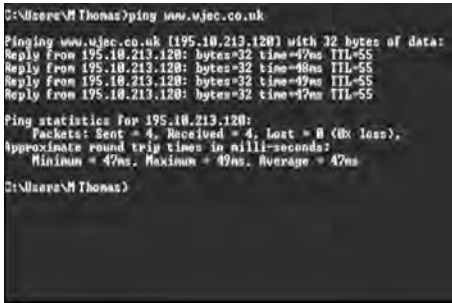
8. There are many types of Human Computer Interfaces (HCIs).

(a) Other than Windows and Icons, give **two** features of a Graphical User Interface (GUI). [2]

Feature 1:

Feature 2:

(b) Name the following different types of Human Computer Interfaces (HCI). [3]



Interface:



Interface:



Interface:



9. Verification and validation are both methods used for checking data.

(a) Complete the following sentence on verification using one of the following terms

Proof reading

Parity checking

Double keying

..... ensures the data received at computer B is the same as the data that was transmitted from computer A. [1]

(b) State what is meant by the term validation and describe one example of a type of data validation check. [3]

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10. Computer networks are used by many organisations.

(a) Packet switching is used in networks to transfer data. Explain in detail how packet switching works. [3]

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.....

(b) Name **two** network topologies that could be used by an organisation. [2]

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(c) Discuss the advantages and disadvantages of network systems over stand-alone computers. [4]

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11. The use of ICT has led to a change in the types of jobs available and has also had both a positive and negative impact on the environment.

(a) Give **two** new jobs that have been created and give **two** types of job that are likely to have been lost. [2]

.....

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.....

(b) Describe in detail how the use of ICT has had both:
• a positive impact on the environment
• a negative impact on the environment [8 QWC]

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