

Surname	Centre Number	Candidate Number
Other Names		0



GCSE

4333/01

INFORMATION AND COMMUNICATION TECHNOLOGY

UNIT 3: ICT In Organisations

P.M. WEDNESDAY, 21 May 2014

1 hour 30 minutes

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

4333
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 pages 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.

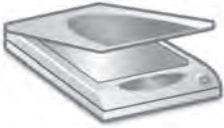

Quality of written communication will be assessed in question **12**.



M A Y 1 4 4 3 3 3 0 1 0 1

Answer all questions.

1. (a) Tick (✓) the correct boxes to show if the following devices are used for *Input* or *Output*. [2]

DEVICE	INPUT	OUTPUT
 Scanner	1 <input type="checkbox"/>	2 <input type="checkbox"/>
 Webcam	3 <input type="checkbox"/>	4 <input type="checkbox"/>

- (b) Other than a touch sensitive screen, scanner or webcam, name **two other different** devices and **tick (✓)** to show if the devices are used for either *Input* or *Output*. [4]

DEVICE	INPUT	OUTPUT
..... 	<input type="checkbox"/>	<input type="checkbox"/>
..... 	<input type="checkbox"/>	<input type="checkbox"/>



(c) Tick (✓) the correct boxes to show which of the following statements about music files are True or False. [3]

STATEMENT	TRUE	FALSE
A music clip stored in MP3 format would take up more memory than the same clip stored in WAV format.	1 <input type="checkbox"/>	2 <input type="checkbox"/>
Music files stored in MP3 format are better quality than files stored in WAV format.	3 <input type="checkbox"/>	4 <input type="checkbox"/>
MP3 files need to be decoded when used, which means they do not load as quickly as some other formats.	5 <input type="checkbox"/>	6 <input type="checkbox"/>

(d) Give the **name** of the *interface* that allows a musical instrument and a computer to communicate with each other. [1]

.....

(e) Explain why sound signals need to be converted before they can be processed by a computer. [2]

.....

.....

.....

.....



2. (a) Use the correct term from the list below to match each of the descriptions about *Presentation Software*:

Transition

Master page

Bullet

HTML

Animation

Hotspot

(i) Getting some of the content on a slide to move: [1]

(ii) Movement from one slide to another: [1]

(iii) An image containing a hyperlink: [1]

(b) People often use presentation software to create a slideshow to display information.

(i) Give **two** reasons why you would use a *Template* when creating a slideshow. [2]

.....
.....
.....
.....
.....

(ii) Give **one disadvantage** of using presentation software. [1]

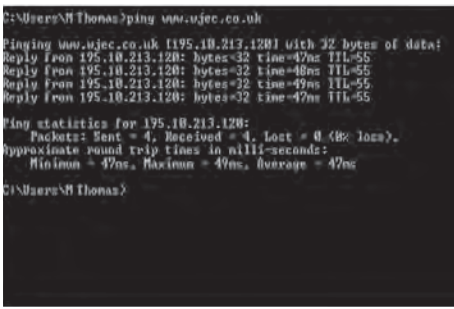

.....
.....
.....



3. Different types of *Human-Computer Interfaces (HCI)* are used on ICT systems.

(a) Name the types of *HCI* shown below.

[2]

	<p>HCI:</p>
	<p>HCI:</p>

(b) Tick (✓) the correct boxes to show which *Application* best matches the *HCI*.

[3]

	HCI		
	MENU DRIVEN	VOICE DRIVEN	BIOMETRICS
Retina scanning to gain access to a high-level security room	1 <input style="width: 40px; height: 30px;" type="checkbox"/>	2 <input style="width: 40px; height: 30px;" type="checkbox"/>	3 <input style="width: 40px; height: 30px;" type="checkbox"/>
Making a cash withdrawal at an Automated Teller Machine	4 <input style="width: 40px; height: 30px;" type="checkbox"/>	5 <input style="width: 40px; height: 30px;" type="checkbox"/>	6 <input style="width: 40px; height: 30px;" type="checkbox"/>
Using your mobile phone hands free	7 <input style="width: 40px; height: 30px;" type="checkbox"/>	8 <input style="width: 40px; height: 30px;" type="checkbox"/>	9 <input style="width: 40px; height: 30px;" type="checkbox"/>



(c) Another type of HCI is a *Touch Sensitive* interface.



(i) Other than mobile phones, give **one** type of device which uses a touch sensitive screen/interface. [1]

.....
.....

(ii) Give **two advantages** of using a touch sensitive screen/interface. [2]

Advantage 1:

.....
.....

Advantage 2:

.....
.....

(iii) Give **one disadvantage** of using a touch sensitive screen/interface. [1]

.....
.....
.....



4. (a) Give **three techniques** used to manipulate digital images. [3]

Technique 1:

Technique 2:

Technique 3:

(b) Give **two advantages** of *vector graphics* over *bit mapped graphics*. [2]

Advantage 1:

.....

.....

Advantage 2:

.....

.....



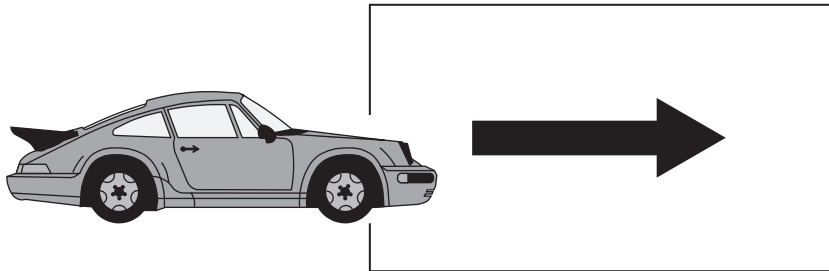
6. Different animation techniques are used to produce animations.

(a) Describe why animators create a *Storyboard*.

[2]

.....
.....
.....

(b) An animator has been asked to produce an animation that shows a car moving from one side of the screen to the other.



Name **two** suitable *animation techniques* that the animator could use and explain *how* these animation techniques would be used to produce the car animation shown above. [2 × 3]

Animation Technique 1:

.....
.....
.....
.....
.....
.....

Animation Technique 2:

.....
.....
.....
.....
.....
.....



7. A computer database is used to store details on all the cars a garage has for sale. Part of the database is shown below.

Registration Number	Type	Colour	Engine	Fuel	Price (£)
CT57 WPD	Estate	B	2500	D	6,000
DR01 GJA	4 × 4	G	3500	D	23,995
AB51 CKB	Saloon	B	3000	P	32,565
KD55 NKT	Estate	R	1600	P	8,000
AC09 UDR	Hatchback	S	2000	D	9,654
MY02 MDT	4 × 4	B	3000	D	25,895
CP51 ANC	Hatchback	O	2200	P	14,995

- (a) Give **one** problem that could occur with encoding colours, as in the *Colour* field above, and suggest a suitable solution to the problem. [2]

.....

.....

.....

.....



8. (a) Tick (✓) the correct boxes to show whether **each** of the following statements about an *Operating System* is **True** or **False**. [3]

STATEMENT	TRUE	FALSE
An operating system is a type of hardware	1 <input type="checkbox"/>	2 <input type="checkbox"/>
An operating system ensures that data is written to the backing store correctly	3 <input type="checkbox"/>	4 <input type="checkbox"/>
A computer will not work unless it has an operating system.	5 <input type="checkbox"/>	6 <input type="checkbox"/>

- (b) For **each** of the following examples of use, state the most suitable processing method. *The first one has been done for you.* [2]

Example of use	Processing method
Controlling a nuclear reactor	Real-time Control Processing
Booking theatre tickets	
Processing electricity meter readings to produce a bill	



9. Online banking is becoming popular.

(a) State **two services** offered to online banking customers. [2]

Service 1:

.....

Service 2:

.....

(b) Give **two benefits** of online banking to customers. [2]

Benefit 1:

.....

Benefit 2:

.....

(c) Give **one concern** that customers may have with the use of online banking. [1]

.....

.....

.....



10. The use of ICT has had an impact on the way people work.

(a) State what is meant by *Teleworking*. [1]

.....
.....

(b) Give **two advantages** of teleworking for the *Employee*. [2]

Advantage 1:

.....
.....

Advantage 2:

.....
.....

(c) Give **two advantages** of teleworking for the *Employer*. [2]

Advantage 1:

.....
.....

Advantage 2:

.....
.....

(d) Give **one advantage** of teleworking to *Society*. [1]

.....
.....

.....
.....



11. Tick (✓) to show your chosen business application from the list below.

Tick (✓)

Robotics

Expert systems

(a) Give **one** specific *use of ICT* in your chosen application. [1]

.....

.....

(b) State **one** *method of data capture* used in your chosen application. [1]

.....

(c) Give **two** *advantages* of using ICT in your chosen application. [2]

Advantage 1:

.....

.....

Advantage 2:

.....

.....

(d) Give **one** *disadvantage* of using ICT in your chosen application. [1]

.....

.....

.....



Examiner
only

Area with horizontal dotted lines for writing.

END OF PAPER



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