

Surname	Centre Number	Candidate Number
Other Names		0



GCSE

4331/01

INFORMATION AND COMMUNICATION TECHNOLOGY

**UNIT 1: Understanding ICT
(SHORT COURSE) INFORMATION AND COMMUNICATION TECHNOLOGY**

UNIT 1: Understanding ICT

A.M. TUESDAY, 15 January 2013

1½ hours

Examiner only

Total Marks	
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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 **12**.



J A N 1 3 4 3 3 1 0 1 0 1

Answer **all** questions in the spaces provided.

1. A school has used word processing software to produce the sponsor form shown below.

Sponsor's Naame	Amount	Paid?

- (a) **Tick (✓)** the **three** correct boxes to show which features of word processing software have been used on this sponsor form. [3]

	Tick (✓)
Bullet points	<input type="checkbox"/>
Table	<input type="checkbox"/>
Word art	<input type="checkbox"/>
Clipart	<input type="checkbox"/>
Italic text	<input type="checkbox"/>



(b) Tick (✓) the feature of the software that could be used to find the error on the sponsor form. [1]

Tick (✓)

Thesaurus

1

Spell Check

2

Word Count

3

(c) Other than *word processing* or *email software*, state **two** different types of software that could be used in organising the fun run. Give an example of how **each** could be used. [4]

Type of software 1

Example of use

.....

.....

Type of software 2

Example of use

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2. Email is used by many people.



(a) Describe what is meant by an *email*. [2]

.....

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(b) From the list below, select the most suitable feature of email software to match each description in the table by circling the correct letter in the boxes. Use **each letter only once**. [4]

- A Carbon copy
- B Email signature
- C Address book
- D File Attachment

Description	Letters			
	A	B	C	D
Allows you to add a personal item to the email	A	B	C	D
Allows you to send the same email to more than one person at once	A	B	C	D
Allows you to send a photograph with your email	A	B	C	D
Allows you to store contact details	A	B	C	D

(c) The misuse of email can cause problems. State **one** misuse and give a way of preventing it. [2]

Misuse:

.....

Prevention:

.....



3. ICT is used for home entertainment.

(a) **Tick (✓)** the correct box to show which of the following is used for input, output or storage. The first one has been done for you. [4]

	Input	Output	Storage
Gamepad	✓		
Joystick			
Monitor			
Memory card			
Speakers			

(b) Computer games are used for home entertainment.

(i) Give **two** advantages of playing computer games. [2]

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.....

.....

.....

(ii) *Other than health problems*, give **two** disadvantages of playing computer games. [2]

.....

.....

.....

.....

(c) *Other than playing games*, state **one** use of Bluetooth connectivity on mobile phones for home entertainment. [1]

.....

.....

(d) Wireless broadband connection has had a big impact on home entertainment. Give **one** advantage of a wireless connection in the home. [1]

.....



4. Digital photography is widely used.

(a) Name an output device used in digital photography. [1]

.....

(b) Name **four different** features of photo editing software and describe how **each** is used in digital photography. 4 × 1 [4]

Feature 1:

.....

Feature 2:

.....

Feature 3:

.....

Feature 4:

.....

5. Social networking is now very popular.

(a) *Other than sharing photographs and videos*, name **two** different uses of social networking. [2]

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.....

(b) *Other than addiction*, give **one** specific danger of using social networking. [1]

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6. A school uses ICT to collect weather data.

(a) Name **two different** types of sensor used to collect weather data. [2]

Sensor 1

Sensor 2

(b) **Tick (✓)** the correct box to show which of the following is *data*, which is *information* and which is *knowledge*. [3]

	DATA	INFORMATION	KNOWLEDGE
The highest recorded temperature was 21°C and this was the warmest day of the week.	1 <input type="checkbox"/>	2 <input type="checkbox"/>	3 <input type="checkbox"/>
15°C, 14°C, 19°C, 20°C and 21°C.	4 <input type="checkbox"/>	5 <input type="checkbox"/>	6 <input type="checkbox"/>
15, 14, 19, 20, 21	7 <input type="checkbox"/>	8 <input type="checkbox"/>	9 <input type="checkbox"/>

(c) Give **two other different** ways of displaying weather information on a computer. [2]

.....
.....

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7. A tennis club uses a database to store membership details. Part of the database is shown below.

Player ID	Name	DOB	Gender	Fees Paid	Coaching Slot	Player Type
1125	V Goodwin	25/06/1995	F	Yes	3	Junior
1126	L Williams	18/05/1979	F	Yes	1	Adult
1147	M Khan	22/07/1980	M	Yes	4	Adult
1256	A Evans	38/03/1975	M	No	2	Adult
1370	K Smith	07/10/1999	F	Yes	5	Junior
1372	L Thomas	08/10/1998	F	Yes	6	Junior
1527	M Jones	31/10/1998	M	No	7	Junior
1546	G Thraves	23/08/1998	F	No	8	Junior

(a) State how many records are shown in the above database. [1]

(b) State how many fields are shown in the above database. [1]

(c) The **key field** is Player ID. State the purpose of the key field. [1]

.....

.....

(d) Tick (✓) the correct box to show the data type that is used for the **Coaching Slot** field. [1]

Tick (✓)

NUMBER

 1

CURRENCY

 2

DATE/TIME

 3


- (e) The database contains an error. **State** the error and **describe** a suitable validation technique that could have prevented the error. [3]

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- (f) The club wants to find the junior players who haven't paid their membership fees. Complete the table below to show how they can obtain this information from the database. [2]

Field Name	Operator	Search Criteria
	=	

AND

Field Name	Operator	Search Criteria
	=	

- (g) The coach sorts the database into ascending order on the **Coaching Slot** field. Give the **Player ID** that would appear on top of the list. [1]

.....



8. The spreadsheet shown below records details of monthly finances.

	A	B	C	D	E	F	G	H	I
1	Month	Income	Wages	Food	Electricity	Water	Gas	Total Costs	Profit
2	January	£4,000	£1,500	£500	£350	£100	£175	£2,625	£1,375
3	February	£4,500	£2,000	£750	£320	£100	£100	£3,270	£1,230
4	March	£5,000	£2,000	£1,000	£320	£100	£80	£3,500	£1,500
5	April	£5,500	£2,000	£1,000	£300	£100	£75	£3,475	£2,025
6	May	£7,000	£2,000	£1,500	£400	£100	£75	£4,075	£2,925
7	June	£8,500	£2,500	£1,500	£400	£100	£100	£4,600	£3,900
8	July	£9,000	£2,500	£1,500	£420	£100	£120	£4,640	£4,360
9	August	£9,500	£2,500	£1,500	£440	£100	£75	£4,615	£4,885
10	September	£8,000	£2,000	£1,500	£500	£100	£75	£4,175	£3,825
11	October	£6,500	£2,000	£1,500	£350	£100	£100	£4,050	£2,450
12	November	£4,500	£2,000	£750	£350	£100	£200	£3,400	£1,100
13	December	£4,100	£2,000	£600	£300	£100	£250	£3,250	£850

(a) State the data in cell A11. [1]

(b) Which of the following formulas could be used to give the **Total Costs** in cell H2? [1]

A = SUM(C2:G2)

B = B2+C2+D2+E2+F2

C = SUM(A2:H2)

D = C2+D2+E2+F2

(c) Give a suitable formula for working out the **Profit** in cell I7. [1]

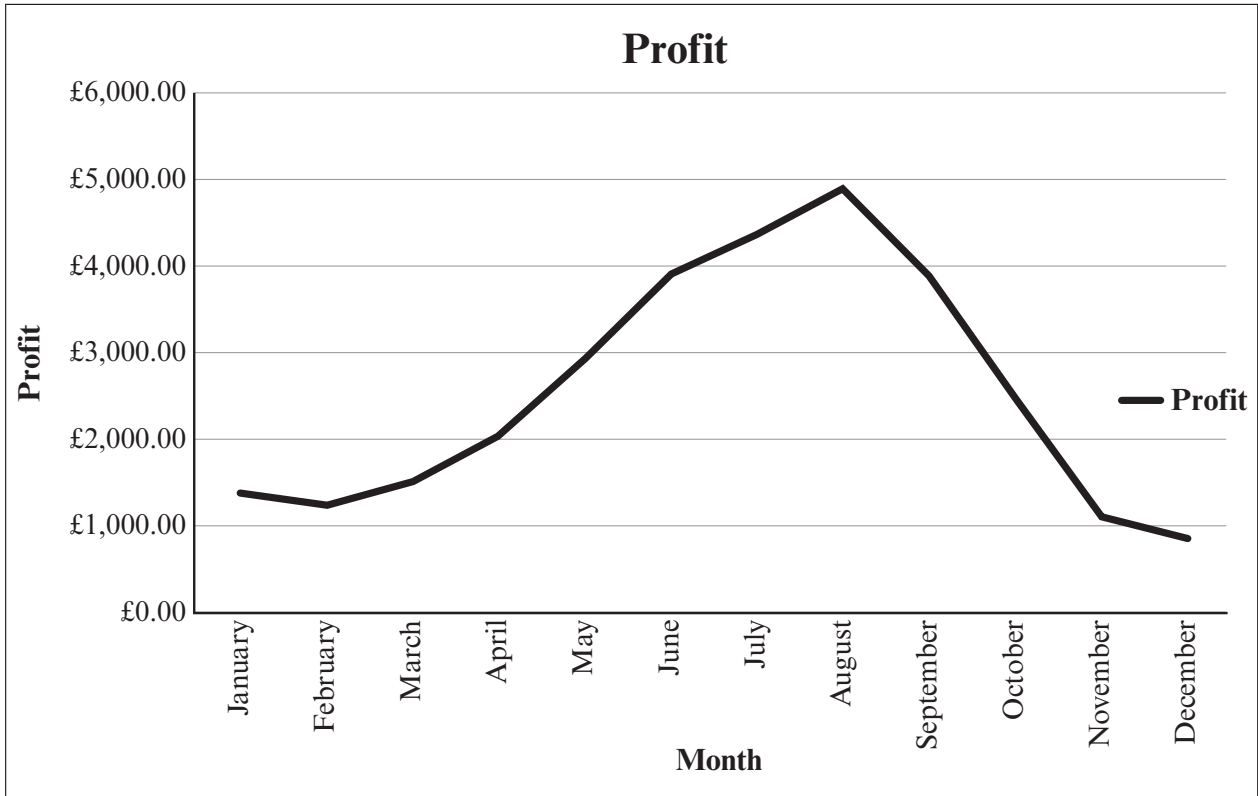
(d) Give **two** specific advantages of using a spreadsheet for working out the **Profit**. [2]

Advantage 1

Advantage 2



(e) The chart below shows the Profit.



Tick (✓) the box below to show the correct **chart type** shown.

[1]

- | | Tick (✓) |
|------------|--------------------------|
| Bar Chart | <input type="checkbox"/> |
| Pie Chart | <input type="checkbox"/> |
| Line Chart | <input type="checkbox"/> |



9. People are concerned about possible health hazards associated with using a computer for long periods of time.

Give **three** different health hazards **and** their matching preventions.

3 × 2 [6]

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10. Concert tickets can be booked on-line from home.

Music Tickets



Please enter your details below:

First Name

Last Name

Email Address

Please re-enter your email address

NEXT

(a) *Other than personal contact details, give **two** other essential items of data the company would store on their on-line booking system.* [2]

.....

.....

(b) (i) Give **two** advantages to the *customer* of using an on-line booking system. [2]

Advantage 1

.....

Advantage 2

.....

(ii) Give **one different** advantage to the *ticket company* of using an on-line booking system. [1]

.....

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11. Virtual Learning Environments (VLEs) are used in schools.

Give **three** uses of a VLE by teachers or students.

[3]

Use 1

.....

Use 2

.....

Use 3

.....

12. Name **three** different *electronic methods* of registering pupil's attendance in school. For **each** method, describe how data is captured and give different advantages or disadvantages for **these** methods. [9]

Remember that the quality of written communication will be assessed in this question.

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END OF PAPER



Question
number

**Additional page, if required.
Write the question numbers in the left-hand margin.**

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