



Rewarding Learning

General Certificate of Secondary Education
2014

Centre Number

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Candidate Number

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Information and Communication Technology (Short Course)

Unit 2: Understanding ICT
Systems in Everyday Use and
its Implications for Individuals,
Organisations, Society and
the Wider World

[GIT41]

WEDNESDAY 14 MAY, MORNING

ML

TIME

1 hour, plus your additional time allowance.

INSTRUCTIONS TO CANDIDATES

Write your Centre Number and Candidate Number in the spaces provided at the top of this page.

Write your answers in the spaces provided in this question paper.

Complete in blue or black ink only. **Do not write in pencil or with a gel pen.**

Answer **all ten** questions.

INFORMATION FOR CANDIDATES

The total mark for this paper is **90**.

Figures in brackets printed down the right-hand side of pages indicate the marks awarded to each question or part question.

Quality of written communication will be assessed in questions **3(b)**, **6(b)** and **7**.

- 2 Below is a simple spreadsheet created by Anna. She runs a drama school and is trying to find out how much she should charge customers in order to make a profit.

	A	B	C	D	E	F	G	H
1	Lesson Name	Day of Week	Venue	Number of people	Total Income	Venue Rental	Insurance	Profit
2	Poetry	Monday	Study	22	£ 110.00	£ 45.00	£ 22.00	£ 43.00
3	Solo Drama	Monday	Studio	10	£ 50.00	£ 45.00	£ 5.00	£ 0.00
4	X-FactorFun	Tuesday	Main Hall	20	£ 100.00	£ 60.00	£ 5.00	£ 35.00
5	StrictlyDancing	Thursday	Main Hall	20	£ 100.00	£ 70.00	£ 5.00	£ 25.00
6								
7							Total Profit	£ 103.00
8								
9		How much will I charge?	£ 5.00					

- (a) Write down the formula you should use to give the correct result in cell H7.

_____ [1]

- (b) In the table below, tick (✓) **one** formula that you should use to give the correct result in cell H4.

Formula	Tick (✓)
D4-G4-F4	
E4+F4-G4	
E4-F4-G4	

[1]

Examiner Only	
Marks	Remark

(c) Insurance is charged as shown below:

Number of people	Cost
Up to 20 people	£5.00
More than 20 people	£1.00 per person

In the table below, tick (✓) **two** formulae that would give the correct result in cell G2.

Formula	Tick (✓)
If(D2<=20,5,D2*1)	
If(D2>20,D2*1,5)	
If(D2<=20,D2*1,5)	
If(D2>20,5,D2*1)	

[2]

(d) How can cell C9 be used to help predict profit?

[2]

(e) Examine the Profit column. What advice would you give to Anna about each class she runs?

[2]

Examiner Only	
Marks	Remark

3 Eleanor works for the NIGOLD Bank. The bank wants to promote new student accounts.

(a) From the list below, tick (✓) **two** statements which are advantages of online banking.

Statement	Tick (✓)
The bank's employees can work from home	
Less staff will be needed in branches of the bank	
Overheads such as building rental will be reduced	
More branches of the bank will have to be opened	

[2]

(b) Eleanor is going to explain online banking to new students entering university. Write her speaking notes under the following headings.

- Advantages of online banking to customers
- The importance of secure websites

Write the speaking notes in the space provided.

Advantages of online banking to customers:

The importance of secure websites:

[4]

Examiner Only

Marks Remark

Total Question 3

[Turn over

(ii) What is bandwidth?

[2]

(iii) How can bandwidth affect video conferencing?

[2]

Examiner Only

Marks Remark

Total Question 4

[Turn over

- 8 (a) Zen Video is constructing a new database. The figure below shows the table structure being set up in their database package. The table is called VIDEO.

Field Name	Data Type	Description
VideoNumber	Number	Video Number - Primary or Key field
Video Title		Title of the video
Genre		Classification of the Video, e.g Comedy, War etc
Release Date		Date video released
InStock		Is the video in stock

In the table below insert data types for the fields in the Video table structure. The first one is completed for you.

Field Name	Data Type
VideoNumber	Number
VideoTitle	
Genre	
Release Date	
InStock	

[4]

Examiner Only	
Marks	Remark

(b) Some data must be entered in a certain format. Complete the sentence below by inserting the correct words from the list provided.

Data Type

Length Check

Input Mask

Error Message

The _____ defines the format of the data to be entered. [1]

VIDEO		
Field Name	Data Type	Description
VideoNumber	Number	Video Number - Primary or Key field

In the figure above, the VideoNumber field is shown and described as a Primary or Key field.

(c) Why is a Primary or Key field necessary in the Video table?

_____ [1]

Examiner Only	
Marks	Remark

A Loan table is also created. The diagram below shows the relationship between the Loan and Video tables.



(d) From the list below, tick (✓) the relationship shown between the Video and Loan tables.

Type of Relationship	Tick (✓)
One-to-One	
One-to-Many	
Many-to-Many	

[1]

Examiner Only	
Marks	Remark

[Turn over

Zen Video produce a monthly report. It shows which members have returned videos and the total value of each loan.

Examiner Only	
Marks	Remark
Total Question 8	

Monthly Video Returned Report

First Name	Surname	Title	Price	Returned
William	Black	Ice Age	£2.50	<input checked="" type="checkbox"/>
			£2.50	
Kalif	Omar	The Matrix	£3.00	<input checked="" type="checkbox"/>
		Perfect Storm	£3.00	<input type="checkbox"/>
		Big Daddy	£3.00	<input type="checkbox"/>
			£9.00	
Peter	Sergant	Shrek	£3.50	<input type="checkbox"/>
		Gladiator	£3.50	<input checked="" type="checkbox"/>
		Forrest Gump	£3.50	<input type="checkbox"/>
			£10.50	
Oisin	Dundas	Da Vinci Code	£4.00	<input checked="" type="checkbox"/>
			£4.00	

(e) Zen Video used a wizard to produce this report. What is a wizard?

_____ [2]

- 9 (a) Complete the following sentences using the words below.
(Not all words will be used).

Impact printers

Ink-jet printers

Laser printers

Plotters

The advantage of using _____ is that businesses can produce high quality detailed diagrams.

_____ are more suitable for printing large volumes of data. _____ consist of a print head which contains nozzles. [3]

- (b) Expand the acronym DVD.

_____ [1]

- (c) List **two** units used to measure memory capacity in a computer.

1. _____

2. _____ [2]

- (d) A computer contains RAM. State **two** features of RAM.

1. _____

2. _____ [2]

- (e) Kieran has 20 films of 1 hour or more in length stored on his computer's hard drive. He needs a device that will enable him to back up these files.

Suggest a suitable backup device. State **one** advantage of using this device.

_____ [2]

Examiner Only

Marks

Remark

Total Question 9

[Turn over

10 Using the terms in the list below choose **one** term that best matches the definition in the left-hand column (not all terms will be used).

INTEGRITY	TRANSITION	VALIDATION	E-COMMERCE
MAILMERGE	CACHE	REDUNDANCY	TEMPLATE
ENCRYPTION	BLU-RAY	PIXEL	ROM
CD-RW	BITMAP	HYPERLINK	HTTP

Definition	Term
Repeating data unnecessarily in a database	
Creating standard letters for a number of people and taking their details from a database	
The correctness, reliability and accuracy of data in a database	
An optical disk with a storage capacity large enough to hold a HD film	
The smallest area that can be edited on a graphic	
High speed memory that holds frequently used instructions	
A ready made document layout which can be reused	
Shopping and conducting business transactions online	
Contains the boot up program for the computer	
A feature which allows users to move between slides on a multimedia presentation	

[10]

THIS IS THE END OF THE QUESTION PAPER

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Marks	Remark
Total Question 10	



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Question Number	Marks
1	
2	
3	
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6	
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8	
9	
10	

Total Marks	
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Examiner Number

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