



Rewarding Learning

General Certificate of Secondary Education
2013

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

[GIT41]

THURSDAY 6 JUNE, MORNING

TIME

1 hour.

INSTRUCTIONS TO CANDIDATES

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

You must answer the questions in the spaces provided. Do not write outside the box, around each page or on blank pages.

Complete in blue or black ink only. **Do not write in pencil or with a gel pen.** Answer **all eleven** 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)(ii)**, **5(c)** and **8(b)**.



(g) Which statement is true about RAM?

- A** RAM is non-volatile and the amount of RAM in a computer cannot affect its performance.
- B** RAM is non-volatile and the amount of RAM in a computer can affect its performance.
- C** RAM is volatile and the amount of RAM in a computer cannot affect its performance.
- D** RAM is volatile and the amount of RAM in a computer can affect its performance.

Answer _____ [1]

(h) A template is:

- A** a program which helps the user to complete a task
- B** a standard layout for a document which can be reused
- C** a program which protects the computer against viruses
- D** a document which has been merged with a database

Answer _____ [1]

(i) Select the statement which is true about a LAN.

- A** A LAN is a Logical Area Network, allows peripherals to be shared and has a file server for storing software.
- B** A LAN is a Local Area Network, allows data to be shared across the Internet and has a file server for storing software.
- C** A LAN is a Local Area Network, allows peripherals to be shared and allows users to share data.
- D** A LAN is a Logical Area Network, allows data to be shared and has a file server for storing software.

Answer _____ [1]

Examiner Only	
Marks	Remark



(j) Select the statement which is true about EFTPOS.

- A It provides itemised receipts but does not allow payments to be processed.
- B It allows barcodes to be scanned but does not allow payments to be processed.
- C It provides itemised receipts but does not allow barcodes to be scanned.
- D It provides itemised receipts and allows payments to be processed.

Answer _____ [1]

Examiner Only	
Marks	Remark
Total Question 1	

[Turn over



2 Joanne has created a spreadsheet to calculate the bonus due to each of her employees. Below is a section of the spreadsheet.

Examiner Only	
Marks	Remark

	A	B	C	D	E	F	G	H	I
1	Holiday Bonus Calculator - Joanne's Jewellery								
2	Forename	Surname	Hours Worked	Rate of Pay Per Hour	Total before Bonus	Bonus	Bonus Amount	Total Earned	Taxable
3	Anne	Dellby	20	£ 10.00	£ 200.00	10%	£ 20.00	£ 220.00	Yes
4	Jack	Beale	8	£ 6.00	£ 48.00	5%	£ 2.40	£ 50.40	No
5	Alex	Bowen	30	£ 10.00	£ 300.00	10%	£ 30.00	£ 330.00	Yes
6	Ewan	Rawdon	15	£ 8.00	£ 120.00	10%	£ 12.00	£ 132.00	Yes
7	John	Mahon	17	£ 9.00	£ 153.00	10%	£ 15.30	£ 168.30	Yes
8	Marc	Smyth	10	£ 7.00	£ 70.00	5%	£ 3.50	£ 73.50	No
9			100		£ 891.00		£ 83.20	£ 974.20	
10									
11									
12	Higher Bonus Rate	10%							
13	Lower Bonus Rate	5%							
14									
15	Tax Boundary	£100.00							

(a) Write down the formula you would expect to find in cell H9.

_____ [1]

(b) If an employee's Total Earned is more than £100.00, they must pay tax. Tick (✓) **one** formula which you would expect to find in cell I3.

Formula	Tick (✓)
=IF(H3>100,"Yes", "No")	
=IF(H3<100,"Yes", "No")	
=IF(H3=100, "No", "Yes")	

[1]



(b) The director of JK Artform has decided to employ a number of teleworkers.

(i) The statements below are about teleworking. Write **TRUE** or **FALSE** beside each. The first one has been done for you.

Statement	TRUE/FALSE
Teleworking is the use of the telephone to make sales to customers.	FALSE
Teleworking allows employees to work flexible hours.	[1]
Teleworker activity is more difficult for managers to monitor.	[1]
Teleworking allows for a lot of face-to-face contact between workers.	[1]

(ii) Describe how the use of teleworkers will impact on the company in terms of:

- Recruiting employees
- Training employees
- Expenses and costs

Recruiting employees _____

Training employees _____

Examiner Only	
Marks	Remark

[Turn over



4 GoMusic is a small business which provides professional music tutoring. People register using an online form. The following rules apply:

- People must enter their surname onto the form.
- People must be aged 10–18.
- People can set up a member's account. If they do, they must select a password of at least eight characters.
- People may enter a budget for tutoring but it must be in pounds, e.g. £15.00.

Tick (✓) **one** validation check for each item of data and give a reason for each choice in the space provided.

Data	Validation Check	Reason for choice
(a) Surname	<input type="checkbox"/> Presence check <input type="checkbox"/> Range check <input type="checkbox"/> Length check <input type="checkbox"/> Type check <p style="text-align: right;">[1]</p>	[1]
(b) Budget	<input type="checkbox"/> Presence check <input type="checkbox"/> Range check <input type="checkbox"/> Length check <input type="checkbox"/> Type check <p style="text-align: right;">[1]</p>	[1]
(c) Age	<input type="checkbox"/> Presence check <input type="checkbox"/> Range check <input type="checkbox"/> Length check <input type="checkbox"/> Type check <p style="text-align: right;">[1]</p>	[1]
(d) Password	<input type="checkbox"/> Presence check <input type="checkbox"/> Range check <input type="checkbox"/> Length check <input type="checkbox"/> Type check <p style="text-align: right;">[1]</p>	[1]

Examiner Only

Marks Remark

Total Question 4

[Turn over



5 Increased usage of the Internet has changed the way people live. Most people do some shopping online.

(a) Circle **two** advantages that online shopping has brought to the customer.

No premises required	24/7 shopping	Fewer staff required	Larger range of shops	Goods are received immediately
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[2]

In order to shop online customers can use their Credit or Debit Card.

(b) List **two** pieces of data they will have to enter from their card when purchasing goods online.

1. _____

2. _____ [2]

(c) Explain how the following help ensure that customer details are processed securely when shopping online.

- SET
- Encryption

SET _____



6 Lucy is creating a database for her school project.

(a) Below is a section from the **Customer** table. Shade **one** record in the table.

Name	House number	Street	Town/City	Postcode
Mr Joe Watson	1	High Street	Belfast	BT4 6TD
Mr Jim Donald	31	Mary Street	Newry	BT24 6TL
Miss Amy White	52	West Street	Armagh	BT62 8TY
Ms Caitlin Rooney	2a	Church Walk	Lisburn	BT18 5FG

[1]

(b) Lucy needs to include a primary key in the **Video** table below.

Title	Genre	Rating	Number in stock
High School Musical	Musical	U	4
The Secret of the Unicorn	Comedy	PG	5
The Lion King	Musical	U	3
Footloose	Musical	12A	6

What is a primary key?

_____ [1]

Examiner Only	
Marks	Remark



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[Turn over

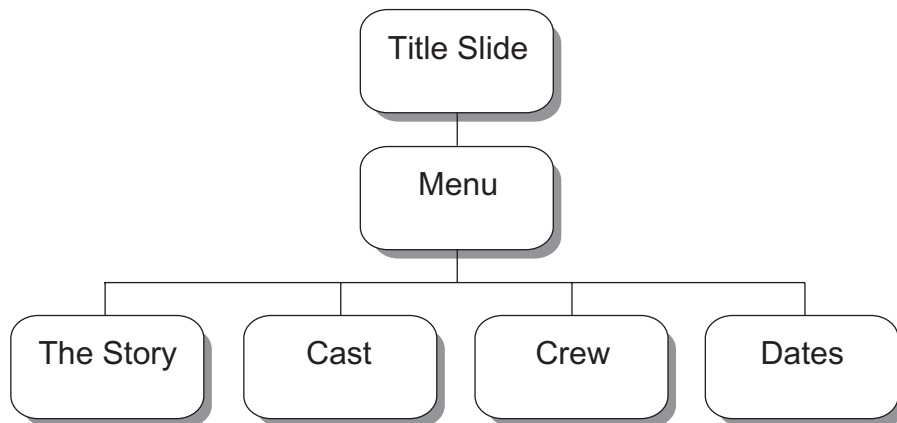
8106



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- 8 Liz wants her friend to make a multimedia presentation to advertise her high school musical “South Pacific” to parents at the Open Evening.

She wants parents to be able to select their own pathway through the presentation, so Liz creates this navigation plan to show how slides should be linked.



- (a) In the table below, place a **tick** (✓) beside **two** presentation tools that would allow users to select different pathways through Liz’s presentation.

Tool	Tick (✓)
Timings	
Buttons	
Hyperlinks	
Master slide	
Templates	

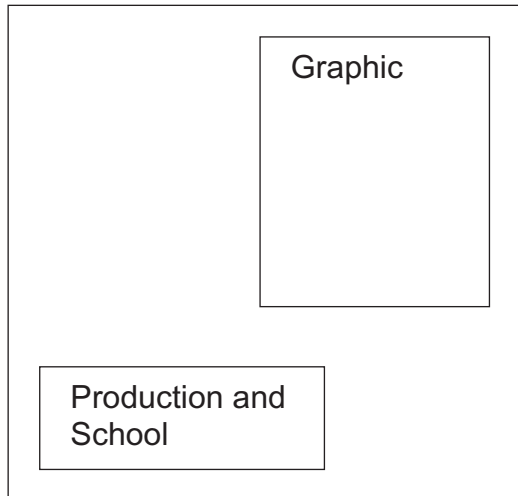
[2]

Examiner Only	
Marks	Remark

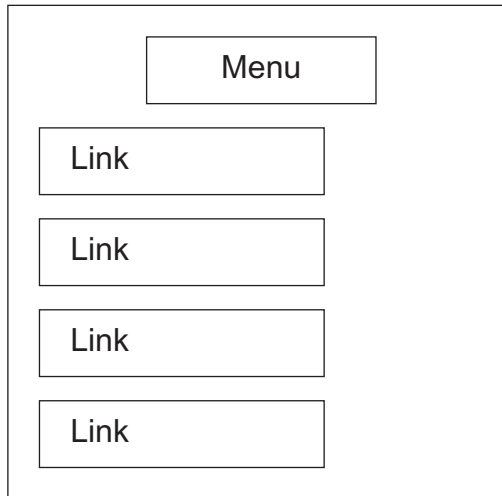


Liz draws up the following storyboard for the first two slides of her presentation. She says she wants the presentation to contain animation and sound.

Title Slide

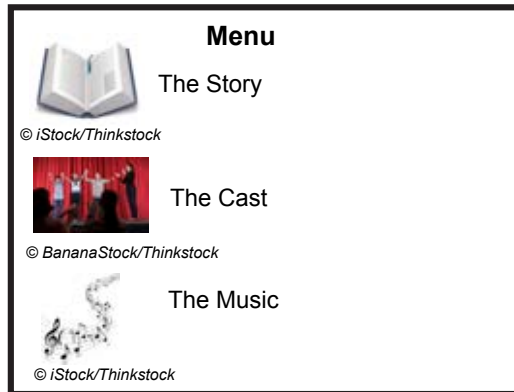
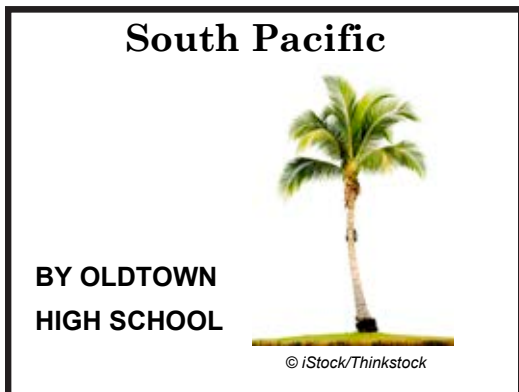


Menu Slide



Examiner Only	
Marks	Remark

Her friend creates the following slides for the start of Liz's multimedia presentation.



Liz needs some advice on testing the completed presentation.

(b) Identify **three** elements of the completed presentation Liz should test and say how she would carry out each test.

Test 1 _____

Test 2 _____

Test 3 _____

_____ [6]

Examiner Only

Marks Remark

Total Question 8



9 Jude is working on a project with a group of students from his English class. The students have to read a newspaper article and comment on the content.

(a) Give **one** reason why instant messaging would not be suitable for this task.

_____ [1]

The students decide to use a bulletin board for the task.

(b) Use the words in the list below to complete the sentences which describe why a bulletin board is appropriate for this task (**not all words will be used**).

Offline Replies Online Interactive

Bulletin boards are not _____ . Not everyone in the group has to be _____ at the same time to take part in the discussion. Users can comment on the article and read the _____ from other group members at anytime. [3]

As part of the lesson the pupils will also link with another school using VoIP.

(c) Explain to Jude what is meant by VoIP.

_____ [2]

Examiner Only	
Marks	Remark
Total Question 9	

[Turn over



- 10 Jack's school uses a form to collect data from new students. The data is used to create information that can be used by the school.

Part of the form the school uses is shown below:

City High School

Pupil Number: _____

Address: _____

Telephone Number: _____

DOB: ____/____/____

How do you travel to school? _____

LUNCHES? _____

SCHOOL CANTEEN? _____

PUPIL NAME: _____



11 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**).

BACKUP SEARCH ENGINE FIREWALL FIBRE OPTIC

VIRTUAL LEARNING ENVIRONMENT BLUETOOTH CSV

OPTICAL MARK RECOGNITION MIDI RTF

TOUCH SCREEN JPEG SEARCH CRITERIA

Definition	Term
Software designed to protect a network from hacking via the Internet	
Technology which allows musical instruments to connect to a computer	
A software tool designed to deliver courses online	
A type of cable which sends data using light pulses	
A program used to find information on the Internet	
A wireless technology which can be used to connect a headset to a mobile phone	
A set of words used to find information on the Internet	
A compressed file format	
A method of data capture which detects the position of pencil marks on a form	
A copy of data currently held on a computer system	

[10]

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Marks Remark

Total Question 11





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Question Number	Marks
1	
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Examiner Number

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