



Rewarding Learning

General Certificate of Secondary Education
2010

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Candidate Number

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StudentBounty.com

Information and Communication Technology

Full Course

Paper 2

Foundation Tier



G5802

[G5802]

THURSDAY 24 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.

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 twelve** questions.

INFORMATION FOR CANDIDATES

The total mark for this paper is 80, including a maximum of 4 marks for quality of written communication.

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

For Examiner's use only	
Question Number	Marks
1	
2	
3	
4	
5	
6	
7	
8	
9	
10	
11	
12	
QWC	

Total Marks	
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Examiner Number	
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Examiner Number

(jun10G5802)

- 1 Leisa wants to buy a digital photo frame but needs help with some of the technical description.



- 320 × 234 Resolution
- Stand for landscape or portrait mode
- Single image or slideshow mode
- 128 MB ROM
- Memory card expansion slot
- Wireless connection

- (a) (i) What does the term **resolution** mean?

[1]

- (ii) Why is resolution important when displaying computer graphics?

[1]

- (b) Draw a diagram in the space below to show what is meant by landscape mode.

[1]

Examiner Only	
Marks	Remark

2 Verification and validation help reduce errors when data is being entered into a computer system.

(a) Complete the table below by circling the validation check which is being carried out on the Data Items shown. (The first is completed for you.)

Data Item	Error Message	Validation check
2001	Membership number must be between 1 and 2000	<input checked="" type="checkbox"/> Range check <input type="checkbox"/> Type check <input type="checkbox"/> Format check <input type="checkbox"/> Length check
@lexander	Member name must contain text only	<input type="checkbox"/> Range check <input type="checkbox"/> Type check <input type="checkbox"/> Format check <input type="checkbox"/> Length check
18th May 2010	Date of birth must be entered dd/mm/yy	<input type="checkbox"/> Range check <input type="checkbox"/> Type check <input type="checkbox"/> Format check <input type="checkbox"/> Length check
Part-time	Membership type must be 3 characters long	<input type="checkbox"/> Range check <input type="checkbox"/> Type check <input type="checkbox"/> Format check <input type="checkbox"/> Length check
30	Members should be over 16 and under 25	<input type="checkbox"/> Range check <input type="checkbox"/> Type check <input type="checkbox"/> Format check <input type="checkbox"/> Length check

[4]

Examiner Only	
Marks	Remark

- 3 Ticketmaster have stores all over the UK and Ireland linked by a **WAN**.
Computers inside the stores are linked by **LANs**.

ADSL and **ISDN** can be used to provide communication links.

- (a) What do the following stand for?

ADSL _____ [1]

ISDN _____ [1]

- (b) Ticketmaster sometimes use Fax machines. Give **ONE** advantage and **ONE** disadvantage of using Fax machines to communicate.

Advantage _____

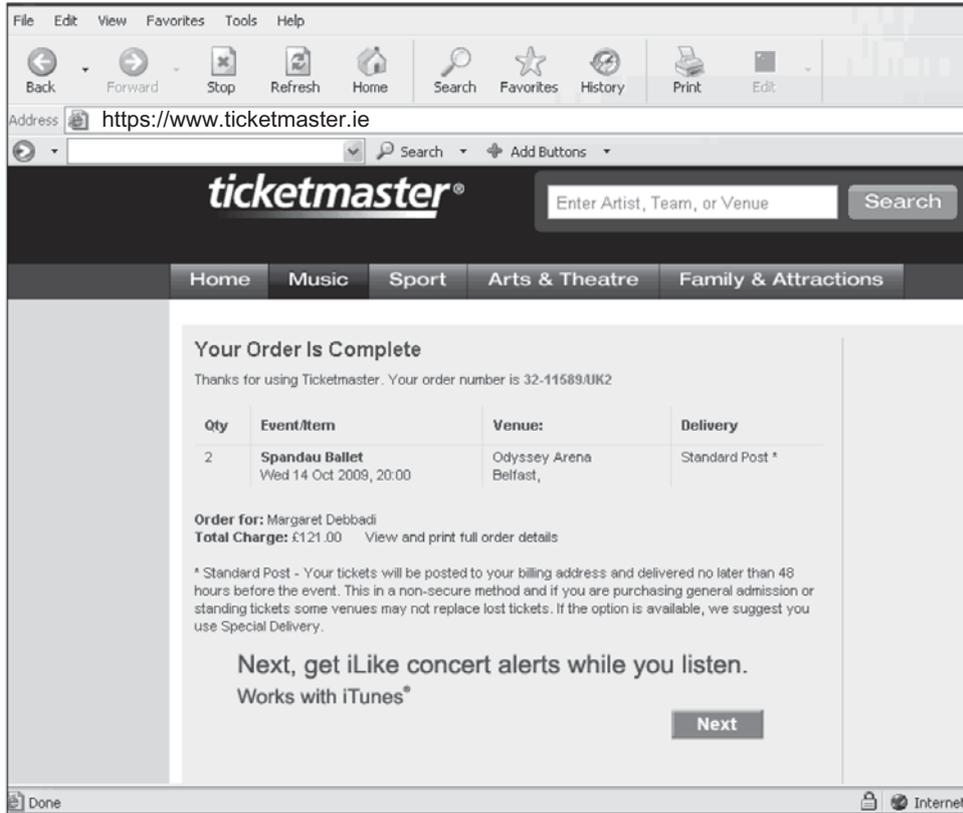
Disadvantage _____

_____ [2]

Examiner Only	
Marks	Remark

- (c) Ticketmaster need to keep customer data secure when it is being transmitted across the Internet.

On the web page shown below circle **TWO** ways the customer can tell that the page is secure.



[2]

- (d) Give **ONE** advantage and **ONE** disadvantage of using wireless connections in the store's LAN.

Advantage

[1]

Disadvantage

[1]

Examiner Only	
Marks	Remark
Total Question 3	

[Turn over

- 4 Neil has started a new taxi company and wants to create a database to keep records of his staff and bookings. He sets up the following tables in a relational database.

tblDriver

Driver ID	Driver Name	Tel Num	Car Reg	Car capacity
100	N McFall	07766872363	UHY 8798	5
101	J McMasters	07712398762	JTG 9801	8
102	A McAllister	07712366177	CLZ 2290	5
103	R Jones	07799982771	OIL 2065	15

tblBooking

Booking ID	Driver ID	Booking Name	Date	Time	Pick-up	Set-down	Num Passengers
200	102	Cowden	01/05/10	12:00	Castlecourt	Green Road	1
201	102	Brown	01/05/10	12:15	City Hall	Lisburn Road	3
201	101	Gribben	01/05/10	12:15	Victoria Sq	Ormeau Road	2
203	102	Ward	02/05/10	12:20	12 Belmont Road	City Centre	2
205	100	Forrester	02/05/10	13:00	Forestside	Belmont Road	1
206	102	Oswald	02/05/10	13:20	Belmont Road	City Centre	1

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(a) How many records will these queries return for Neil?

(i)

Field:	Booking ID	Driver ID	Booking Name
Table:	tbl Booking	tbl Booking	tbl Booking
Sort:			
Show:	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Criteria:		"102"	
or:			

_____ [1]

(ii)

Field:	Booking ID	Driver ID	Booking Name	Date	Time
Table:	tbl Booking				
Sort:					
Show:	<input checked="" type="checkbox"/>				
Criteria:		"102"		"02/05/10"	
or:					

_____ [1]

Use the data in the tables above to answer these questions.

(b) **Driver ID** and **Booking ID** are set up as the key fields. What is meant by the term **key field**?

_____ [1]

(c) **Driver ID** is used to link the two tables. Give **ONE** advantage of using a relational database to store data.

_____ [1]

Examiner Only

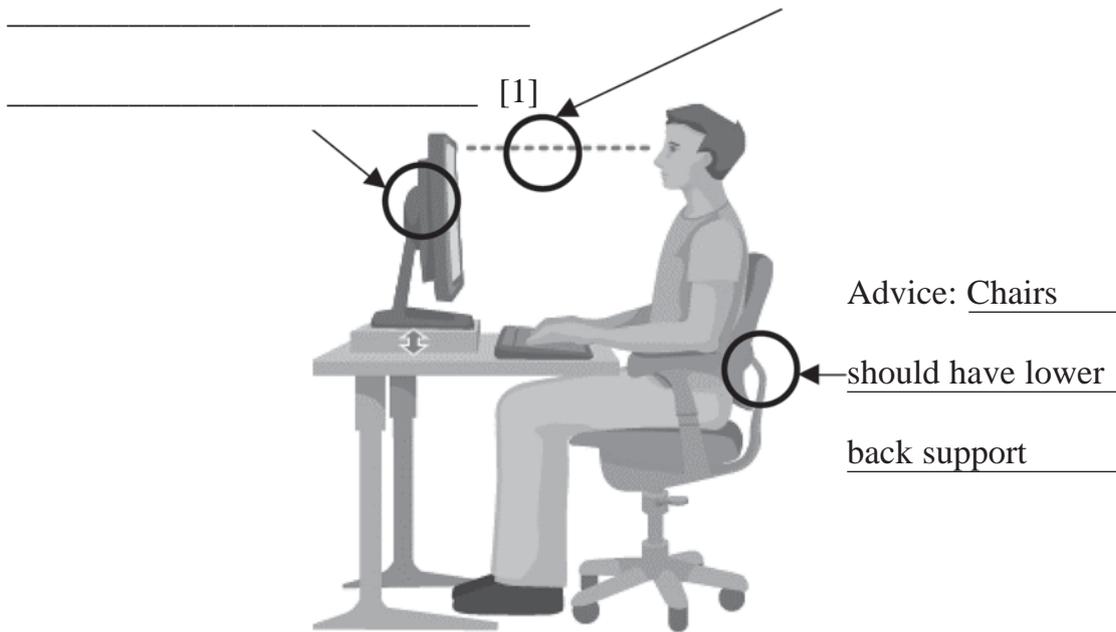
Marks Remark

6 Health and safety is important when working on a computer.

(a) Finish labelling the diagram below to give advice to someone who will be working for long periods of time on a computer.

(i) Advice: _____

(ii) Advice: _____ [1]



<http://www.codinghorror.com/blog/images/computing-ergonomics-monitor-position.png>

To prevent fires it is important that electrical sockets in the workplace should not be overloaded.

(b) Give **TWO other** safety measures that can help reduce the chance of accidents happening.

1. _____ [1]

2. _____ [1]

Examiner Only	
Marks	Remark
Total Question 6	

[Turn over

7 Web browser software allows users to display **HTML** web pages they have retrieved from the Internet.

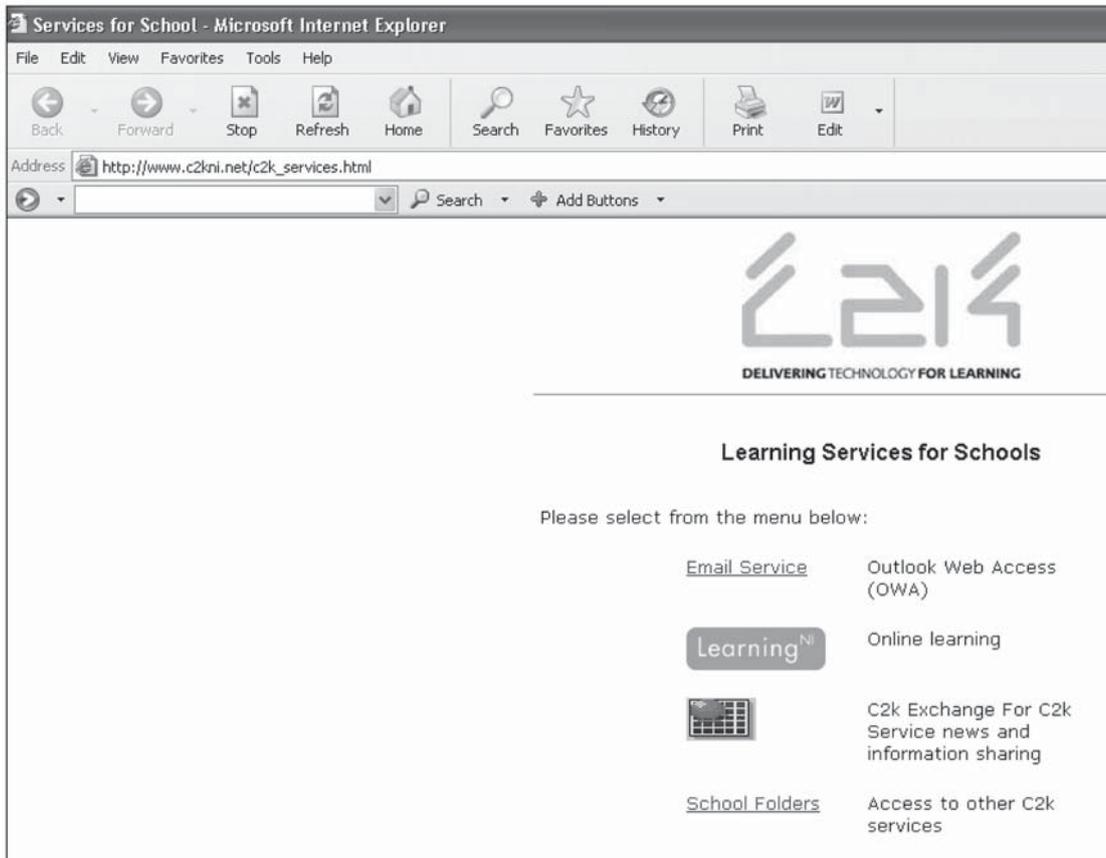
(a) What do the letters **HTML** stand for?

_____ [1]

(b) On the web page shown below

(i) Circle the button you use to reload web pages. [1]

(ii) Circle the button you use to view web pages you have visited. [1]



© c2kni

(iii) Explain the function of the button labelled **HOME** on a web browser.

 _____ [1]

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Examiner Only	
Marks	Remark

8 Electricity, gas and telephone bills are all produced using batch processing.

- (a) Use the words below to complete the following sentences to describe some of the steps involved in creating electricity bills using batch processing.

Master File

Transaction File

Bill

Details of current meter readings are entered onto the system in one batch.

The current meter readings are then stored on a _____ .

This file is then merged with the old _____ and the

customer's _____ is printed. [3]

- (b) Batch processing systems normally process data outside normal work hours. Give **ONE** advantage of processing data at this time.

_____ [1]

- (c) Give **ONE** reason why batch processing is not used for online booking of flights.

_____ [1]

Examiner Only

Marks Remark

Total Question 8

12 Mobile phones have a variety of uses including making voice calls and messaging.

(a) Identify **TWO** ways mobile phones can also be used as an entertainment device

1. _____

2. _____

_____ [2]

(b) List **TWO** pieces of advice you would give to someone who wanted to purchase a mobile phone for use as an entertainment device.

1. _____

2. _____

_____ [2]

Examiner Only

Marks

Remark

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