

FOR OFFICIAL USE

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	KU	PS
Total Marks		

0560/402

NATIONAL MONDAY, 12 MAY
QUALIFICATIONS 10.20AM – 11.35AM
2008

COMPUTING STUDIES
STANDARD GRADE
General Level

Fill in these boxes and read what is printed below.

Full name of centre

Town

Forename(s)

Surname

Date of birth

Day Month Year

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Scottish candidate number

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Number of seat

Read each question carefully.

Attempt **all** questions.

Write your answers in the space provided on the question paper.

Write as neatly as possible.

Answer in sentences wherever possible.

Before leaving the examination room you must give this book to the invigilator. If you do not, you may lose all the marks for this paper.



1. Saunders High School are raising money for charity. Ben has entered the money raised from a “car washing” event in the spreadsheet below.

	A	B	C	D	E
1	Car Washing				
2					
3		Feb	Mar	Apr	Best Month
4	Andrew	£10.70	£3.50	7.1	£10.70
5	Arif	£2.00	£1.10	9	£9.00
6	Hassan	£7.10	£3.20	1.82	£7.10
7	Michael	£6.40	£8.30	2.3	£8.30
8	Christine	£5.80	£6.10	3	£6.10
9					
10				Average	£8.24

- (a) The values in column D have to be formatted to look like those in columns B and C.

Describe how this can be done.

2
1
0

- (b) In cells **E4** and **E10** functions have been used.
Complete the following.

(i) E4 = _____ (____ : ____)

2
1
0

(ii) E10 = _____ (____ : ____)

2
1
0

1. (continued)

- (c) Cells E4 to E8 each contain a formula. This formula was only entered once in cell E4

- (i) Describe how this formula was *replicated*.

- (ii) Ben wants to stop people from changing his formulae. Explain what feature he must use to stop this happening.

- (d) The headteacher would like to see the figures displayed as a bar chart but he is not familiar with the package. State the feature of the package that could help him.

- (e) The file is saved to a small portable device.

- (i) What is the name of this device?

- (ii) State whether the file saved is an *application file* or a *data file*.

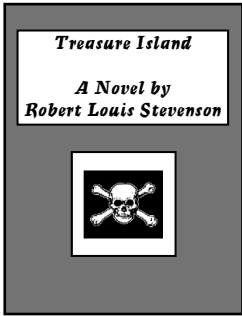
- (iii) Explain the difference between an application file and a data file.

KU	PS
	2 1 0
1 0	
	1 0
	1 0
1 0	

[Turn over

2. A library uses a database to hold the details of all of its books.

(a) A sample record is shown below.

<i>Field Data</i>	<i>Sample Data</i>	<i>Field Type</i>
Book Title	Treasure Island	Text
Cover		A
Author	Robert Louis Stevenson	Text
ISBN	0448058251	B
Due to be returned	22/06/08	C
Keywords	Pirate, treasure, adventure, gold	Text

Identify the **field types** which are listed as A, B and C.

A = _____

B = _____

C = _____

(b) A *check digit* is used to ensure data is entered correctly.

(i) State the field in the record above that makes use of a check digit.

(ii) Describe how a check digit is created.

3
2
1
0

1
0

2
1
0

2. (continued)

- (c) Complete the following search screen to obtain a list of all adventure books written by Scott Miller due to be returned by 30/06/08.

<i>LIBRARY DATABASE SEARCH SCREEN</i>	
Book Title	
Author	
ISBN	
Due to be returned	Before 30/06/08
Keywords	
SEARCH	

- (d) The librarian's computer is connected to a network which includes all of the libraries in the country.

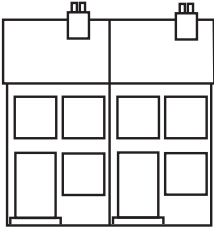
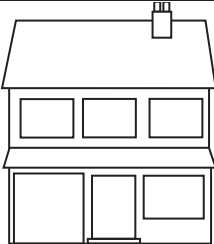
What type of network is this?

- (e) State the term used to describe an attempt to gain illegal access to the library's network.

[Turn over

KU	PS
	2 1 0
	1 0
	1 0

3. The home page for a local builders' Web site is shown below.

<u>Aviemore</u> <u>Torrance</u> <u>Dennison</u>	
	This is the most popular design in our range of bungalows. Three bedroom, two bathroom, living room, dining room, kitchen, garage, GCH, DG.
	This is one of the smaller terraced houses. Three bedroom, two bathroom, living room, dining room, kitchen, garage, GCH, DG.
	This is a popular design in our detached house range. Three bedroom, two bathroom, living room, dining room, kitchen, garage, GCH, DG.

- (a) When a user clicks on the word “Dennison”, they are taken to a new Web page. State the name of this feature.

1
0

- (b) The image of the first house has been inserted incorrectly.

State **two** changes required to correct this problem.

2
1
0

- (c) The text for the web page was created in a *general purpose package*.

State the most suitable type of package for creating the text.

1
0

3. (continued)

(d) One of the paragraphs has been saved and inserted into the text for each house.

(i) Name this type of paragraph.

1
0

(ii) State **two** advantages of using a pre-prepared piece of text.

1 _____

2 _____

2
1
0

(e) A *high level language* was used to create the Web site.

(i) Name a language that could be used to create Web pages.

1
0

(ii) State **two** common features of high level languages.

1 _____

2 _____

2
1
0

(iii) What characters are used in *machine code*?

1
0

(f) The Web site includes many types of *multimedia*. State **one** type and explain how it could be used to improve the Web site.

Type: _____

Explanation: _____

2
1
0

[Turn over

4. Morag uses *on-line banking* to check the balance of her account at ScotWide Bank.

(a) Morag has a dial-up connection to the Internet.

(i) State **two** disadvantages of using a dial-up connection.

(ii) Name another type of connection.

(b) Morag cannot remember the Web address of the ScotWide Bank Web site. Using some of the words below, complete the sentences to describe how she can find her bank's Web site.

<i>ScotWide</i>	<i>engine</i>	<i>account</i>	<i>browser</i>
-----------------	---------------	----------------	----------------

She would load up her _____ to view Web pages.

She would then use a search _____ and enter _____ Bank.

(c) Morag must enter two pieces of information to access her personal account. One of them is her username. State the other piece of information needed.

(d) What type of computer is used by the bank to store all of their customer details?

4. (continued)

- (e) When Morag enters her details into her computer they are *encrypted* before being sent to the bank

- (i) State what is meant by the term encrypted.

1
0

- (ii) Explain why her details have to be encrypted.

1
0

- (f) Morag's computer system has a LCD monitor. What do the initials LCD stand for?

L_____C_____ Display

2
1
0

[Turn over

KU	PS
1 0	
1 0	
1 0	
	1 0
	1 0

5. CheapWays supermarket has installed a new checkout system.



- (a) When an item is scanned, the price appears on the checkout display. What type of processing is this?

- (b) State **one** running cost of the new checkout system.

- (c) When a customer pays using a bank card, the money is taken from their account and transferred into the supermarket's bank account.

- (i) State the term used to describe this transfer of money.

- (ii) State **one** advantage to the **supermarket** of this type of payment rather than paying with cash.

- (iii) State **one** advantage to the **customer** of this type of payment rather than paying by cash.

KU	PS
2	
1	
0	
	1
	0
2	
1	
0	
	4
	3
	2
	1
	0
2	
1	
0	

6. A factory currently employs people to make chairs. They are about to introduce an automated system.

(a) State **two** changes that may happen to the jobs of the workers.

1 _____

2 _____

(b) A person is employed to plan the new system.

(i) State the job title of this person.

(ii) Name **two** other computing jobs, excluding the one used above, that might be needed in the factory.

1 _____

2 _____

(c) Use some of the words below to complete the paragraph about the new system.

tool

mobile

feedback

stationary

sensor

robot

When a chair moves along the conveyor belt it is detected by a _____ which sends _____ to the main computer. The conveyor belt stops and a robot uses a paint spraying _____ to paint the chair. This type of robot is called a _____ robot.

(d) State **two** ways that the robot could have been taught to paint the chairs.

1 _____

2 _____

[Turn over

7. Rebekkah is writing her life story using a word processing package. An extract is shown below.

Before my trip up the Amazon, I had to make sure that I had the following:

Checklist		
Food	Medical	Gear
Beans	Bandages	Rope
Pasta	Plasters	Knife
Rice	Aspirin	Compass

- (a) Rebekkah uses a spell checker to find mistakes in her document.
- (i) Describe the steps that a spell checker takes when checking a word that is spelt incorrectly.

3
2
1
0

- (ii) The word Amazon is spelt correctly, but was identified as incorrect by the spell checker.

State how you could prevent “Amazon” from being highlighted by the spell checker.

1
0

(b) Rebekkah notices that throughout her book she has called her friend “McGregor” instead of “MacGregor”.

- State **two** input devices that she would need.

[END OF QUESTION PAPER]

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