

FOR OFFICIAL USE

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KU PS TOTAL

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0560/401



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NATIONAL
QUALIFICATIONS
2011

TUESDAY 3, MAY
9.00 AM – 10.00 AM

COMPUTING STUDIES
STANDARD GRADE
Foundation 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

--	--	--	--	--	--	--

Scottish candidate number

--	--	--	--	--	--	--	--	--	--

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.

Use **blue or black ink**.

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. ACE Swimming Club use a computer program to keep track of club clothing sales.

The table below shows some of the items on sale.

	A	B	C	D
1	Item	Number Sold	Price	Total
2	Swimsuits	8	£9.99	£79.92
3	Trunks	12	£7.99	£95.88
4	Swim Caps	25	£4.99	£124.75
5	T-Shirts	15	£8.99	£134.85
6	Goggles	10	£3.99	£39.90
7				
8		Total Sales		£475.30

- (a) State the type of application package used to create this table.

1

- (b) Use the words below to complete the sentences.

formula

value

text

Use each word only **once**.

Cell A3 contains _____

Cell B4 contains a _____

Cell D6 contains a _____

3

- (c) The data in cell C6 should be £4.99 not £3.99. The contents of **two** other cells will change when the correct data is entered.

State the **two** other cells that will change when the correct data is entered.

1 _____

2 _____

2

1. (continued)

- (d) The club secretary keeps a *backup* of the file.

State **one** reason why the club secretary would keep a backup.

1

- (e) Cell D8 contains a formula which calculates the Total Sales.

Which of the following is the correct formula?

Tick (\checkmark) **one** box only.

= D2 * D6

= D2 + D6

= D2 - D6

= SUM (D2:D6)

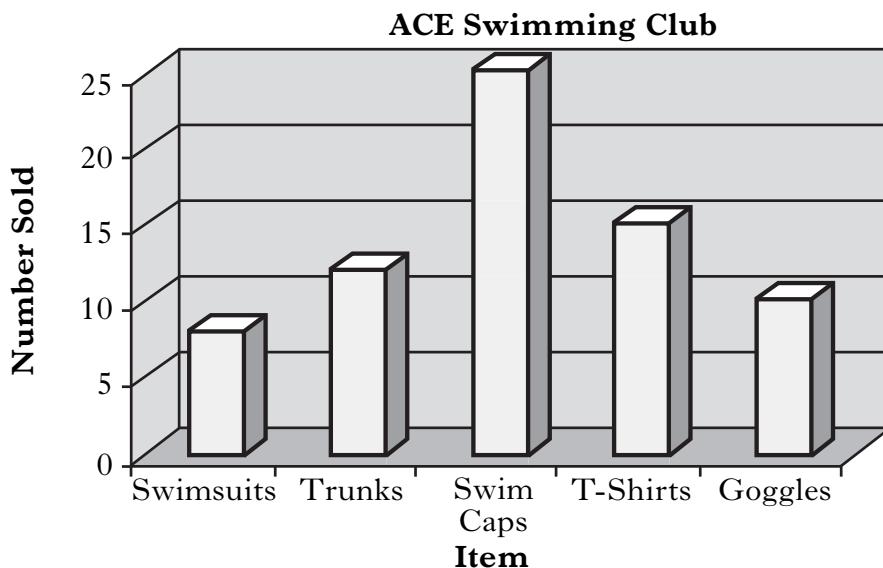
1

[Turn over

KU	PS

1. (continued)

- (f) The number of each item sold is shown in the following way.



- (i) State the feature of the package that has been used to create this.

1

- (ii) State **one** reason for displaying the information in this way rather than as a table of figures.

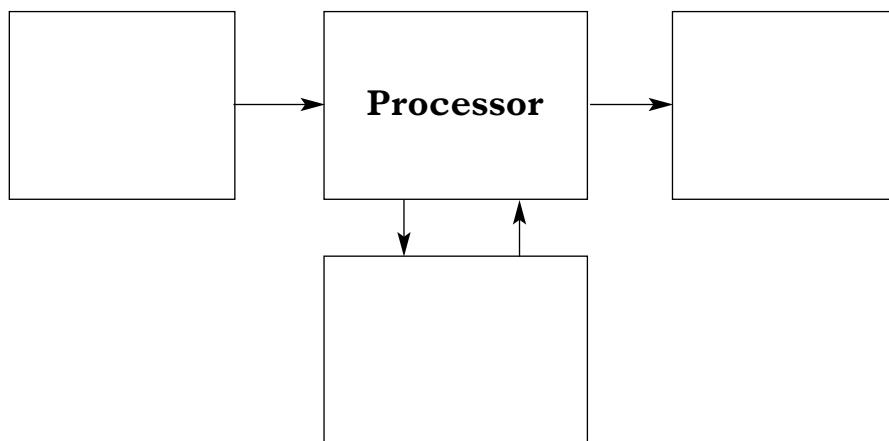
1

2. (a) A computer system is made up of the following parts:

Input devices Output devices Processor Backing Storage Devices

Use the above terms to complete the block diagram below.

One has been completed for you.



3

- (b) A *hard disk* is an example of backing storage.

State **two** other examples of backing storage.

1 _____

2 _____

2

- (c) Main Memory is either *RAM* or *ROM*.

State **two** differences between RAM and ROM.

1 _____

2 _____

2

[Turn over]

KU	PS
	5

2. (continued)

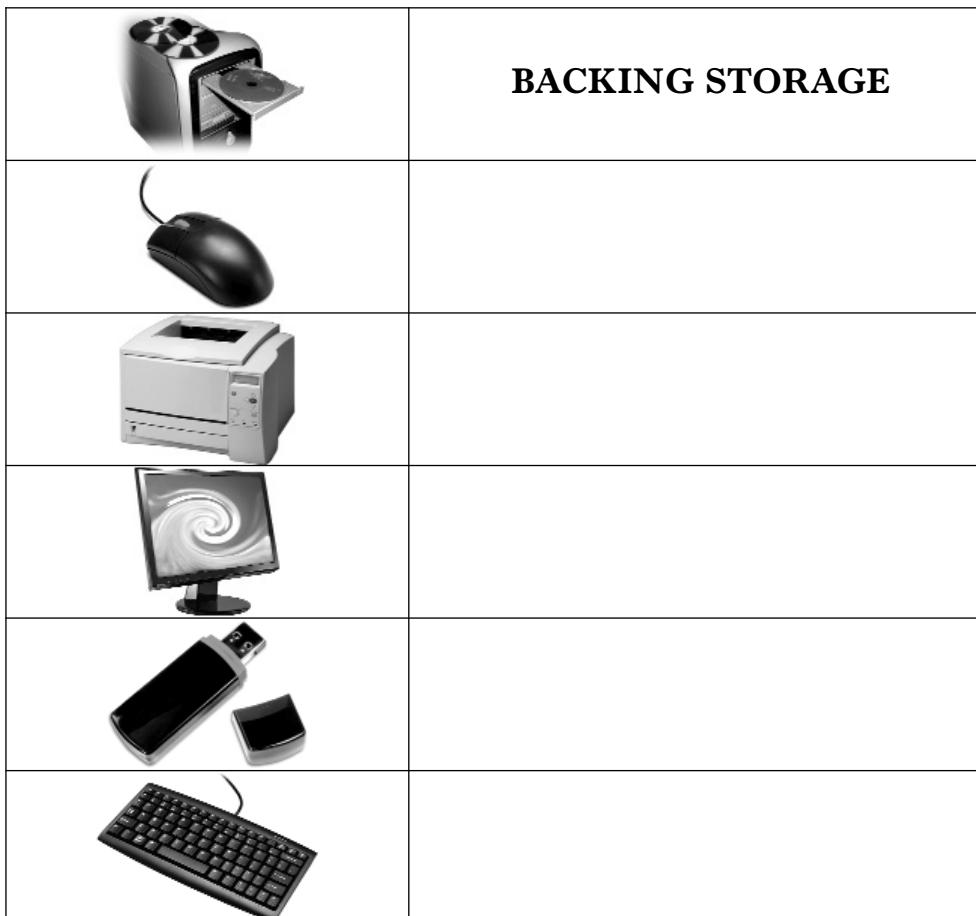
(d) A variety of devices are used for input, output and backing storage.

Beside each device insert the correct type. The first one has been done for you.

INPUT

OUTPUT

BACKING STORAGE



KU	PS
	3
3	

2. (continued)

- (e) Put each of the following terms next to the correct statement.

Hardware Software Operating System

Use each word only **once**.

Programs that are used by a pupil: _____

Programs that run the computer: _____

The physical parts of the computer: _____

- (f) Computer monitors are also known as *VDUs*.

What do the letters “VDU” stand for?

V _____ D _____ U _____

3

[Turn over

KU	PS

3. Brawhames is an estate agency that sell houses in Central Scotland.
Information about the houses is stored in a computer database.

Town: Grangemouth
Address: 23 Main Street
Owners Name: Katie Craigen
Number of bedrooms: 3
House Type: Detached
Price: £125 000

House:



- (a) Using the above example, state a field that contains:

- (i) Text: _____ 1
(ii) A graphic: _____ 1
(iii) A number: _____ 1

- (b) A filing cabinet was previously used to store house details.

State **two** advantages of storing information using a computerised database.

1 _____

2 _____

2

3. (continued)

(c) Here is a printout of part of the database.

Town	Address	Owners Name	Number of Bedrooms	Price	House Type
Falkirk	Green Lane	Lewis Black	1	£90 000	Flat
Bo'ness	Wynd Road	Sophie Butler	2	£125 000	Semi Detached
Falkirk	Water Road	Brian Reid	3	£175 000	Detached
Larbert	Forth Avenue	Satnam Virdee	2	£100 000	Mid Terrace
Stirling	Wynd Close	Claire Smith	4	£250 000	Detached

- (i) How many fields are shown in the above table? _____ 1
- (ii) How many records are shown in the above table? _____ 1
- (d) The estate agent uses this database to find houses that are suitable for new buyers.
- (i) To find all houses in Larbert the estate agent will _____
for "Larbert" on the field _____. 2
- (ii) To find the cheapest house the estate agent will _____
in ascending order on the field _____. 2

[Turn over]

KU	PS
	1
	1
	1
	1
	1
	1
	1
	1

4. Paints R Us make paint to sell in its own stores.

(a) The company has decided to automate all parts of the production of the paint and the paint containers.

(i) The paint is sold in metal tins. An automated system is used to make the tins.

State **one** reason why the company use an automated system for this job.

1

(ii) Poisonous fumes are produced during the production of the paint.

State **one** reason why an automated system is used in this case.

1

(b) Paints R Us use robots to pack the tins of paint and move them to the stockroom.

Use some of the words below to complete the following sentences.

stationary mobile motor feedback interface

(i) A robot which can move around the factory is called a

_____ robot.

1

(ii) Data sent from a sensor to a computer is called

_____.

1

(iii) A robot moves because its parts are moved by a

_____.

1

KU	PS

4. (continued)

- (c) Robots can have *tools* added to their arms to allow them to do a variety of tasks.

Using the words below match the correct tool with the task.

gripper *suction pad* *ladle*

Use each word only **once**.

Task	Tool
Moving hot liquid	
Moving a metal rod	
Moving a large pane of glass	

3

- (d) Each tin of paint has a *barcode* printed on the tin.

What two items of information will the barcode contain?

Tick (✓) **two** boxes only.

Price	<input type="checkbox"/>
Item code	<input type="checkbox"/>
Country of Manufacture	<input type="checkbox"/>
Use By Date	<input type="checkbox"/>

2

- (e) State **two** reasons for entering data using a barcode.

1 _____

2 _____

2

[Turn over

4. (continued)

The company use a *mainframe* computer to store information about sales and stock.

- (f) State **two** reasons why Paints R Us use a mainframe computer.

1 _____

2

- (g) The mainframe computer is linked to *terminals* in stores all over the country.

What **two** items of hardware make up a terminal?

?

KU	PS
2	
	2
	2
	2

5. (a) Bass Rock insurance company has a large office in Edinburgh.

The company connect their computers to a LAN.

- (i) What do the letters LAN stand for?

One word has been completed for you.

L _____ A _____ Network

- (ii) Apart from communication state **two** reasons why companies would use this type of network.

- (b) Most company workers use *Internet Ready Computers*.

State **one** hardware item and **one** software item that an Internet Ready Computer requires.

Hardware item: _____

Software item: _____

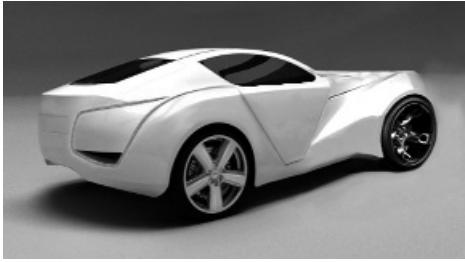
- (c) Bass Rock employees use various methods of communication.

State **two** methods of electronic communication they would use.

1 _____

[Turn over

6. Portonian Cars are launching a new model of car and want to send an invitation to all of its customers to the launch.



- (a) The invitations are typed using a *template* from a Desk Top Publishing package.

What is a “template”?

1

- (b) The manager decides that the graphic is on the wrong side of the invitation.

How could the secretary use the software to make this change?

1

- (c) In order to edit the invitation the secretary will have to carry out five steps to make the changes to the invitation.

Enter the numbers 1, 2, 3 and 5 in the table below to show the order she must use to make the changes.

Step	Order
Print invitation	
Edit invitation	
Load program	
Save invitation	4
Open the invitation	

4

KU	PS
	1
	1
	1

6. (continued)

- (d) The secretary has an area on her hard disk called promotions where she will save the invitation.

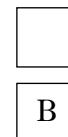
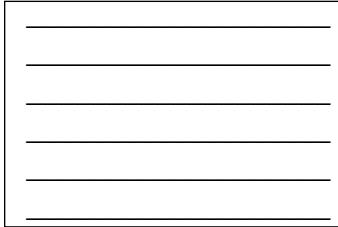
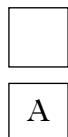
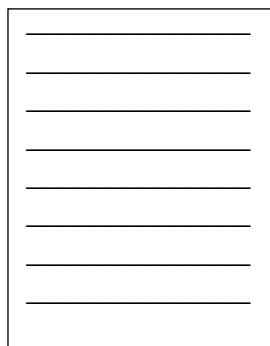
State what term is given to an area where you will save work on one subject.

1

- (e) The secretary wishes to print out the invitation with a portrait layout.

Which option below is a portrait layout?

Tick (✓) one box.



1

- (f) The manager would like a slide show created for the launch of the new car.

State the type of package that would be used to create a slide show.

1

[END OF QUESTION PAPER]

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