

FOR OFFICIAL USE

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F

KU

PS

Total Marks

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0560/401

NATIONAL
QUALIFICATIONS
2007

WEDNESDAY, 2 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

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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.

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.



2. (a) Part of a spreadsheet is shown.

From the list of words below, label the spreadsheet.

column *formula* *value* *cell* *row*

Use each word only **once**.

5
4
3
2
1
0

(b) A local newsagent keeps track of the paper boys' wages on his spreadsheet.

	A	B	C	D	E	F	G	H
1	Newsag							Weekly
2	Name	Sun	Mon	Tue	Thu	Fri	Sat	Wages
3								
4	Callum	£3.00					£3.00	£6.00
5	Neil		£2.50	£2.50	£2.50	£2.50		£10.00
6	Aidan	£3.00	£2.50			£2.50		£8.00
7	Reece			£2.50	£2.50		£3.00	£8.00
8								
9							Total Wages	£32.00

(i) The word “**Newsagent**” was entered into cell A1 but does not fit.
What must be done to fix this?

1
0

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

3. Mrs Borland is a dentist. She keeps her patients' records on a computer.

(a) Which application would be best suited for this task?

Tick (✓) **one** box only.

Word Processing Database Graphics

(b) Samples of the dental records are shown below.

First Name	Stuart	Andrew	Gillian	John
Surname	Forrest	Taylor	Bell	Simpson
Date of Birth	17/10/90	14/01/90	09/03/91	14/07/91
Street	1 Nova Street	31 Corsa Ave	47 Burn Street	1 Canada Ave
Town	Boat	Garten	Lomond	Maple
Appointment	15/05/07	15/05/07	26/06/07	30/10/07

(i) State the number of fields shown above. _____

(ii) State the number of records shown above. _____

(c) A new patient called Elaine Johnstone joins the dental practice.

What must the dentist do with the information Elaine Johnstone has given her?

(d) Use **search** or **sort** to complete the following sentences.

(i) The dentist wants to know who has an appointment on 15/05/07.

The dentist should _____ on the field Appointment.

(ii) The dentist wants a list of all patients in alphabetical order.

The dentist should _____ on the field Surname.

(iii) The dentist wants a list of patients over 18 years old.

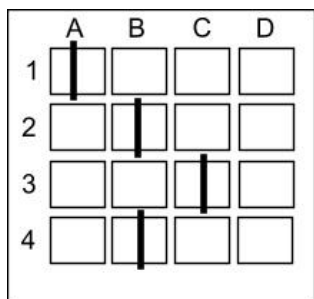
The dentist should _____ on the field Date of Birth.

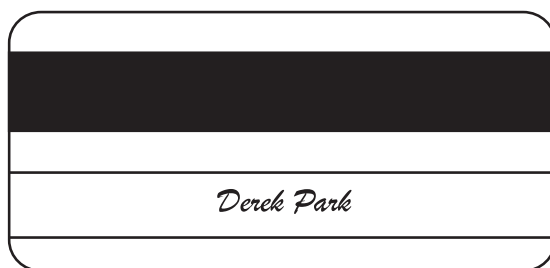
5. Supermarkets make daily use of computers.

(a) There are many ways of inputting data.

Match the following terms with the appropriate diagrams.

bar code *magnetic stripe* *mark sense*







3
2
1
0

(b) The supermarket uses a *mainframe* computer linked to *terminals*.

(i) Explain why the supermarket uses a mainframe computer.

1
0

(ii) What is a terminal?

1
0

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

6. The army now use robots to help defuse bombs.

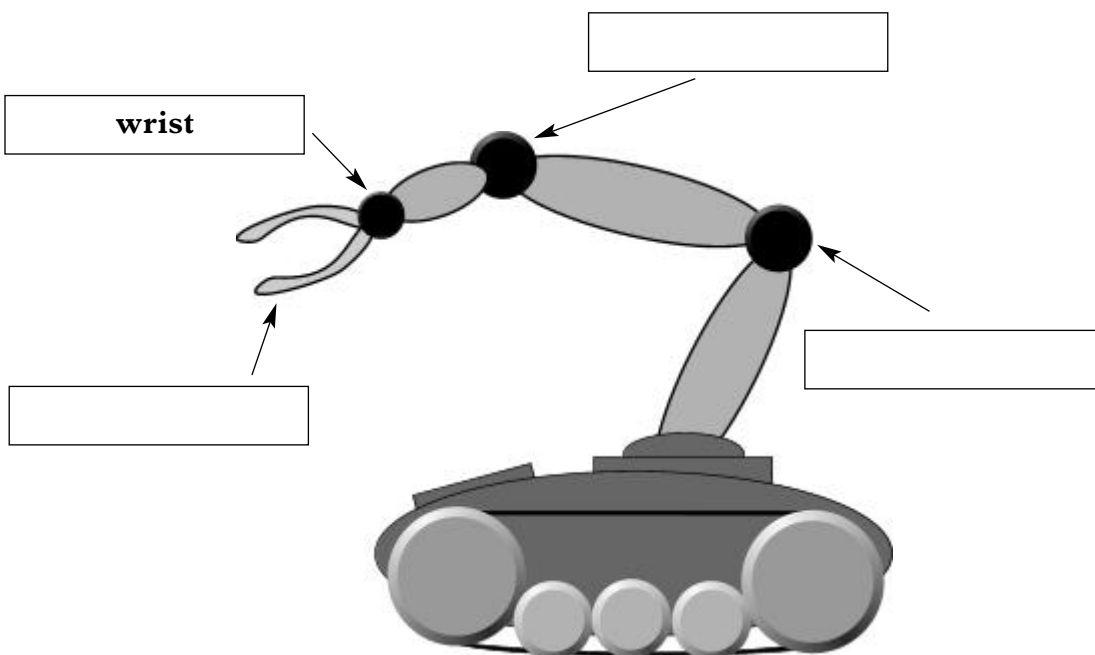
(a) State **one** reason why the army use robots instead of humans.

(b) (i) State how robots are given their instructions.

(ii) Explain how robots can be made to carry out a different task.

(c) The army robot looks like this.

(i) Label the parts of the robot.



KU	PS
1 0	
	2 1 0
2 1 0	

6. (c) (continued)

(ii) Is this a *stationary* or a *mobile* robot?

Tick (✓) **one** box only.

stationary mobile

(d) Use **two** of the following words to complete the sentences.

feedback *sensors* *speed* *motors*

(i) Robots detect their surroundings by using _____ .

(ii) Information sent from the robot to the computer is called

_____ .

(e) When the robots are made a system called *CAD/CAM* is used.

What do CAD and CAM stand for?

Fill in the missing words.

(i) Computer Aided D_____

(ii) Computer Aided M_____

[Turn over for Question 7 on Page fourteen

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

7. (a) Caitlin's computer is connected to the *World Wide Web (WWW)*.

(i) Which type of *network* is this?

Tick (✓) **one** box only.

Local Area Network (LAN) Wide Area Network (WAN)

(ii) What does Caitlin's computer need to view a Web page on the WWW?

Tick (✓) **two** boxes only.

modem browser

printer scanner

(b) The computer system has an *integrated package*.

(i) What is an integrated package?

(ii) Integrated packages have a common *HCI*.

What does HCI stand for?

Fill in the missing words.

H _____ Computer I _____

[END OF QUESTION PAPER]