



2007 Computing Studies

Standard Grade – Foundation

Finalised Marking Instructions

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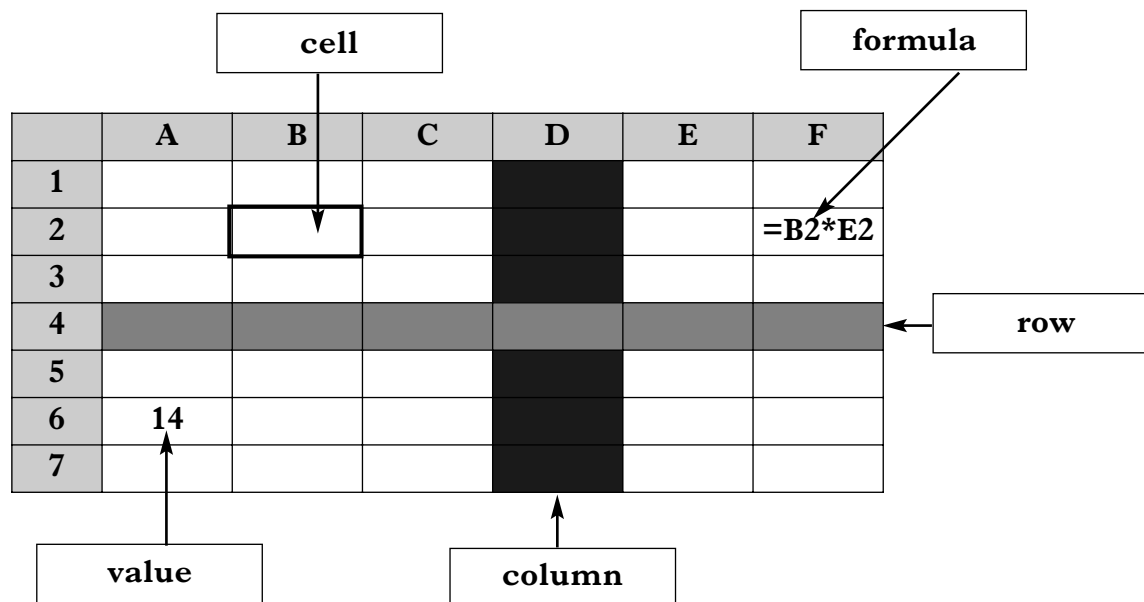
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2. (a) Part of a spreadsheet is shown.

From the list of words below, label the spreadsheet.

column formula value cell row

Use each word only **once**.



1 mark for each box labelled correctly

(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?

Widen the column A OR click between A & B and drag the column wider

OR use a smaller font OR use a different font OR double-click between columns A & B, OR autofit OR, merge cells OR column/cell wider

Do not accept "bigger"

1 mark for any correct answer

5
4
3
2
1
0

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

1 mark for the correct box ticked

(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. 6 fields - 1 mark

(ii) State the number of records shown above. 4 records - 1 mark

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

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

Make a new record (for Elaine Johnstone) - 1 mark

Add her details to the database/computer - 1 mark

(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 search on the field Appointment.

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

The dentist should sort on the field Surname.

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

The dentist should search on the field Date of Birth.

1 mark for each correctly identified search or sort

KU	PS
1 0	
	1 0
	1 0

3. (continued)

(e) At the end of the week the dentist makes a *backup* of her patient file.

(i) What is a backup?

A (second) copy of your files/data OR another copy - 1 mark

(ii) State **one** reason for keeping a backup.

In case the first copy is lost/damaged etc - 1 mark

Corrupt

(f) Before loading the patient file the dentist must type in a password.

State **one** reason for typing this password.

So no one else can see their data/its private - 1 mark

The patient file belongs to the dentist

Security

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.

safer/cannot get killed/cheaper etc need to justify "cheaper"
1 mark for any good response

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

show the robot what to do/program it - 1 mark
copycat OR lead through OR remote control OR keypad
Do not accept through the computer
1 mark

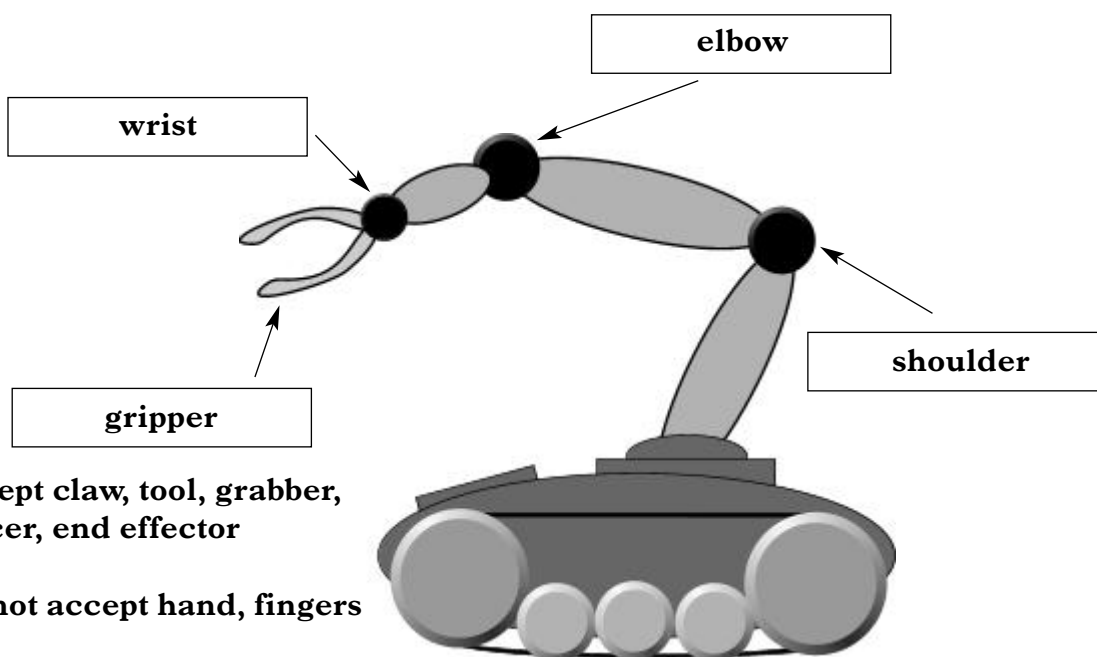
(ii) Explain how robots can be made to carry out a different task.

(Re)program it/change the tool it was using - 1 mark
Change the program

For parts (i) & (ii) you cannot accept "program it" with no explanation

(c) The army robot looks like this.

(i) Label the parts of the robot.



Accept claw, tool, grabber,
pincer, end effector

Do not accept hand, fingers

1 mark for each part of the anatomy identified correctly

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

1 mark for the correct box ticked

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

feedback *sensors* *speed* *motors*

(i) Robots detect their surroundings by using **sensors** .

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

 feedback .

1 mark for each correct answer

(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 **Design**

(ii) Computer Aided **Manufacture**

1 mark for each correct answer

