

2006 Computing Studies

Standard Grade – Foundation

Finalised Marking Instructions

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

3. In a nuclear power station robots have replaced human workers.

(a) How are the robots given their instructions?
programmed/shown how to do it, programmer wearing a glove, by a computer, machine code, main computer via interface. ✓
By a sensor × **1 mark any suitable answer**

(b) Suggest **two** reasons why robots are used in the nuclear power station instead of humans.

- 1 **safer than using humans**
cheaper than paying wages
more efficient
accuracy
- 2 **robots work harder than humans**
24/7 **1 mark each for any suitable answer**

(c) The human workers were retrained to do other jobs in the nuclear power station.

Suggest **one** new job that they could be trained for in the nuclear power station.

computer programmer/engineer/maintenance/controlling the robots, plus any computer related job eg technician **1 mark any suitable answer**

(d) One of the jobs the robot does is to replace fuel rods in the nuclear power station.

Use the following words to complete the sentences. **1 mark for the correct word to complete the sentence**
Each word can be used only **once**.

motors *feedback* *sensor*

The robot detects the fuel rods by using a sensor .

This sends feedback to the computer.

The computer moves the robot by switching on its motors .

KU	PS
	1 0
	2 1 0
	1 0

5. (a) Taylor Travel is a travel agent that has 600 shops throughout Europe.

(i) What kind of central computer would they use?

Tick (✓) **one** box only.

Laptop

Desktop

Mainframe

**1 mark for the
correctly ticked
box.**

(ii) Why would Taylor Travel use this kind of computer?

Tick (✓) **two** boxes only.

The computer is user friendly. **1 mark for the
correctly ticked
box.**

The computer is easy to program.

The computer is fast at processing.

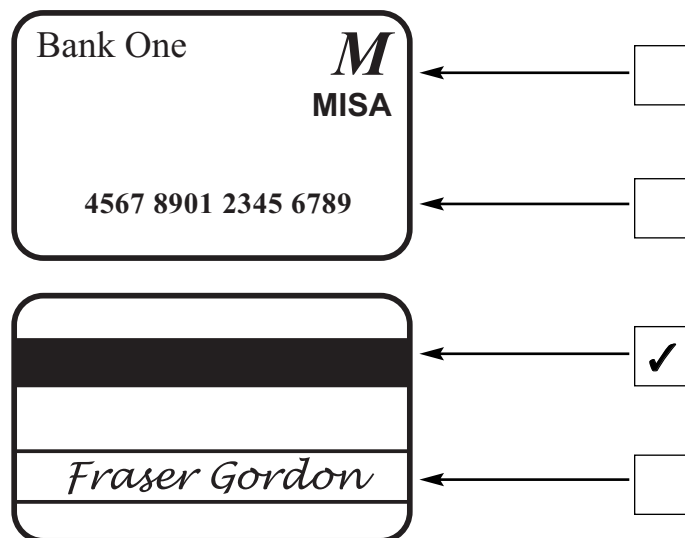
The computer can handle large amounts of data.

The computer is small.

(b) People can pay Taylor Travel for their holidays by using a credit card. There is a *magnetic stripe* on the credit card.

(i) Which box shows the magnetic stripe?

Tick (✓) **one** box only.



KU	PS
	1 0
2 1 0	
	1 0
	1 0

5. (b) (continued)

- (ii) Why do people prefer to pay by credit card instead of cash?
saves carrying cash about with them - safer/cannot get robbed/pay credit card (can go into debt) at end of month. buying on-line (if properly explained)✓ grey area buying abroad ×

1 mark for any suitable answer

- (c) The following poster was used to advertise Taylor Travel.
 Which **two** types of software would be used to produce the poster?
 Tick (✓) **two** boxes only.

Communications	
Word processing	✓
Database	
Graphics	✓

1 mark for each correctly ticked box



- (d) One of the customers sees his information on the computer screen. He notices that his address is wrong.

What must be done to his address?

It must be changed to the correct address search and replace ×

1 mark

- (e) His neighbour's holiday information is also held on the computer. Can he look up where his neighbour is going?

Tick (✓) **one** box only. Yes No

1 mark for correctly ticked box

[Turn over

6. A school tuck shop keeps track of the daily sales.

	A	B	C	D
1	Crisps	Number sold	Price	Total
2	Cheese & Onion	45	0.30	13.50
3	Salt & Vinegar	32	0.30	9.60
4	Ready Salted	12	0.30	3.60
5	Prawn Cocktail	60	0.30	18.00
6				
7		Total Sales		44.70

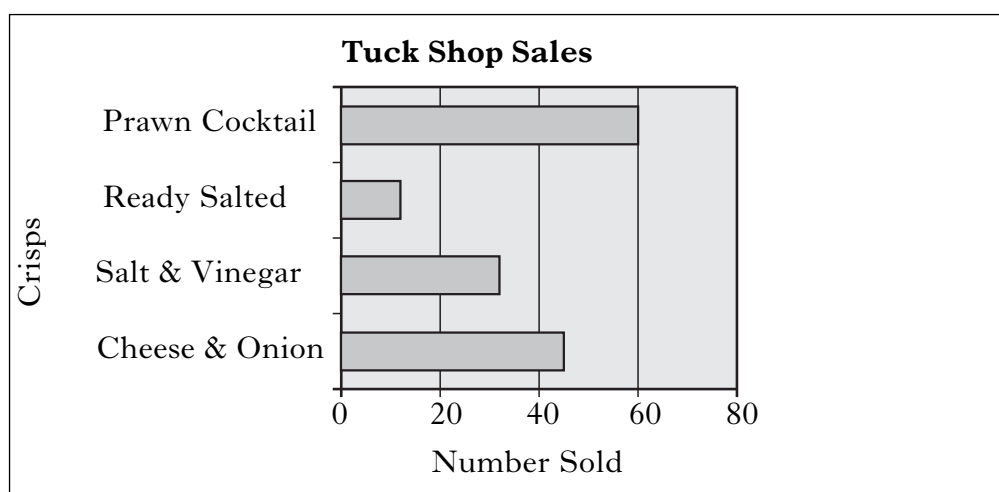
(a) Which application is being used?

Tick (✓) **one** box only.

Word processor Spreadsheet Graphics

1
0

(b) A pupil in the school would like to present the information in the following way.



Which part of the application could be used?

The charting facility, graph, pie charts, bar charts

1 mark for charting or any other suitable answer given.

No marks for graphics

1
0

