



# Johnstone High School Computing Department General Prelim Exam 08/09

NAME: \_\_\_\_\_ CLASS: \_\_\_\_\_

1. A letter is to be sent out to parents telling them about the activity week at the end of term.

a. In the letter the year head has been named many times as Mr **Macdonald**, whereas it should be Mr **McDonald**.

(i) Name the feature of a word processing package which is used to make this change.

\_\_\_\_\_

(ii) Describe how the feature is used in the above example.

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

b. The letter includes a *standard paragraph* used for all school trips. What is a "*standard paragraph*"?

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

c. Before the secretary prints off the letter he does a *spell check*. It stops and highlights the name McDonald, every time it appears, showing it as an error. What should he do to prevent this from happening?

\_\_\_\_\_

\_\_\_\_\_

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

d. Page two of the letter starts in the middle of a paragraph. What feature of the word processing package could be used to force the whole paragraph to move onto page two?

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KU	PS
	1 0

KU	PS
	1 0
	1 0
	2 1 0
1 0	

2. The school has created a spreadsheet to show the total profit made when selling their sweets.

	A	B	C	D	E	F
1	Product name	Cost per item	Selling price per item	Profit per item	Number sold	Profit
2						
3	Chocolate bar	£0.15	£0.25	£0.10	50	£5.00
4	Toffee bar	£0.10	£0.20	£0.10	40	£4.00
5	Strawberry chews	£0.05	£0.10	£0.05	60	£3.00
6	Plain crisps	£0.12	£0.25	£0.13	25	£3.25
7	Cheese crisps	£0.12	£0.25	£0.13	40	£5.20
8	Cola drink (can)	£0.15	£0.25	£0.10	60	£6.00
9	Orange squash (carton)	£0.14	£0.20	£0.06	30	£1.80
10						
11					Total profit	£28.25

a. What can be done to prevent the cell containing the total profit from being changed accidentally?

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b. Tick the box which shows the formula in F3.

= B3\*C3

= D3-E3+F3

= D3\*E3

= D3-E3-F3

c. In cell F11 a function has been used. Fill in the spaces below with the function and cell references in the appropriate places.

F11 = \_\_\_\_\_ ( \_\_\_\_\_ : \_\_\_\_\_ )

d. The school wants a printout to show how much profit is made on each type of sweet. State **one** reason why he might present the figures as a chart for this printout.

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

3. John has a database of volcanoes in his home computer. Here is part of John's database:

Name	Country	Continent	Height (m)	Status
Balbi	Solomon Is	Pacific	3100	Dormant
Cameroons	Nigeria	Africa	4069	Active
Chimborazo	Ecuador	South America	6282	Extinct
Colima	Mexico	Central America	3850	Active
Cotacachi	Ecuador	South America	4937	Active
Cotopaxi	Ecuador	South America	5978	Active
Demavend	Iran	Middle East	5366	Extinct
Elbrus	USSR	Asia	5647	Extinct
Erebus	Antarctica	Antarctica	4023	Active

a. Look at the records above and write down **two** field types that have been used.

\_\_\_\_\_ and \_\_\_\_\_

John wants to find out particular information from the database. Answer the questions below filling in the *field name* and the *keywords* used to find the information.

b. John wants to find the names of the volcanoes that are in South America and are active.

Perform a complex \_\_\_\_\_ on \_\_\_\_\_ field for \_\_\_\_\_

AND on \_\_\_\_\_ field for \_\_\_\_\_

c. John wants to find out the names of the volcanoes with a height of 3,000 m or more in Ecuador.

Perform a complex \_\_\_\_\_ on \_\_\_\_\_ field for \_\_\_\_\_

AND on \_\_\_\_\_ field for \_\_\_\_\_

d. John would like to put his database in order of height with the highest volcano first on the list. How would he do this?

John would \_\_\_\_\_ his database using the \_\_\_\_\_ field

and put it in \_\_\_\_\_ order.

KU	PS
2	
1	
0	
1	
0	

e. John wants to control access to the database. Describe **two** suitable methods he could use to control access.

(1) \_\_\_\_\_





(2) \_\_\_\_\_

f. John only wants to record information about volcanoes between 2,000 and 6,000 meters in height. What type of check could be done on the Height field to ensure that it falls within these limits?

\_\_\_\_\_

KU	PS
1	2
0	1
	0
1	
0	

4. Part of the home page for a local cinema Web site is shown below.

		<h2>Recent Releases</h2>	
<a href="#">Recent Releases</a>		<a href="#">Horror</a>	
<a href="#">Romantic Comedy</a>			
<p>Quantum Of Solace            Cert: 12A            Contains frequent moderate action violence            Runtime: 1 hour 46 mins</p>			
<p>Easy Virtue            Cert: 12A            Contains mild sex references and innuendo            Runtime: 1 hour 37 mins</p>			
<p>The Tale of Despereaux            Cert: 12A            Runtime: 1 hour 20 mins</p>			

a. When a user clicks on the word "Horror", they are taken to a new Web page. State the name of this feature.

\_\_\_\_\_

b. All images have to look similar. The first image has been inserted incorrectly. State **two** changes required to correct this problem.

(1) \_\_\_\_\_

(2) \_\_\_\_\_

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.

\_\_\_\_\_





d. Mrs Jones's computer system has an LCD monitor and uses TFT technology. What do the initials LCD and TFT stand for?

LCD: \_\_\_\_\_

TFT: \_\_\_\_\_

e. People like Mrs Jones who use on-line banking feel safe using this system as they are protected by the *Computer Misuse Act*. State **one** reason why this would make them feel this way.

\_\_\_\_\_

\_\_\_\_\_

KU	PS
4	
3	
2	
1	
0	
	1
	0

	KU	PS								
<p>6. Pupils in a local secondary school are going on an activity weekend. The details are stored in a database. Below is an example of part of a record.</p> <table border="1" data-bbox="149 298 771 451"> <tr> <td><b>Name:</b></td> <td>Susan Brown</td> </tr> <tr> <td><b>Year:</b></td> <td>1</td> </tr> <tr> <td><b>House:</b></td> <td>Red</td> </tr> <tr> <td><b>Medical Condition:</b></td> <td>Asthma</td> </tr> </table>	<b>Name:</b>	Susan Brown	<b>Year:</b>	1	<b>House:</b>	Red	<b>Medical Condition:</b>	Asthma		
<b>Name:</b>	Susan Brown									
<b>Year:</b>	1									
<b>House:</b>	Red									
<b>Medical Condition:</b>	Asthma									
<p>a. A parent wants to see the records of all pupils held on this database. Does he have the right to see all records?</p> <p>_____</p> <p>Explain your answer:</p> <p>_____</p> <p>_____</p> <p>_____</p>	<p>2 1 0</p>									
<p>b. A new pupil has joined the school in 1st year. What must be done to include his details in the file?</p> <p>_____</p>		<p>1 0</p>								
<p>c. The database is held on the school LAN. What do the initials "LAN" stand for?</p> <p>_____</p>	<p>1 0</p>									
<p>d. The school need to print the details of all pupils who are taking part in the activity weekend. Give <b>two</b> running costs of having the records printed out.</p> <p>_____</p> <p>_____</p>	<p>2 1 0</p>									
<p>e. The school makes a second copy, stored on an external hard drive. What is this second copy called?</p> <p>_____</p>	<p>1 0</p>									

7. Mrs Smith has trouble starting her car one morning. She remembers seeing a notice in her local garage advertising an **Expert System** for car maintenance.

a. What is an Expert System?

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b. State one area, other than car maintenance, where an expert system could be used and what it could be used for in that area.

Area \_\_\_\_\_

What it would be used for \_\_\_\_\_

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c. The garage will print off details of any faults found in Mrs Smith's car. The printouts will include figures which must be able to be read clearly.

(i) Suggest a suitable type of printer. \_\_\_\_\_

(ii) State **one** reason for your answer.

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d. Expert systems are written in high level languages. Why is it necessary for high level languages to be translated?

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e. High Level Languages are written to solve problems. State **two** other features that they have in common.

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

KU	PS
	2 1 0
	2 1 0
1 0	
	1 0
<b>36</b>	<b>36</b>

8. a. Mary has just finished writing her first book using word processing software. When her publisher reads it over he recommends that the last two paragraphs be swapped around. How can Mary do this?

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b. When writing her book Mary uses both *program* files and *data* files. Give an example of each type of file in this situation.

(i) Program file \_\_\_\_\_

(ii) Data file \_\_\_\_\_

c. How is text represented in a computer system?

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d. When Mary first started her book she was unfamiliar with the software she was using. What feature of the software could she have used to help her?

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