Spreadsheets – 2023 ICT IGCSE 0417

1. June/2023/Paper_0417/13/No.8

A teacher is creating a spreadsheet as an electronic mark book. Part of the electronic mark book displays how well a student did on a piece of work. When a student completes a piece of work the teacher will enter the mark into the electronic mark book and a message will be displayed.

- If the student gains 60 or more marks then 'Merit' is displayed

- If the student gains 50 to 59 marks then 'Pass' is displayed

- If the student gains a mark below 50 marks then 'Not Pass' is displayed.

The formula the teacher has used is:

=IF(A1>=60,"Merit",IF(A1>50,"Pass","Not Pass"))

The formula will need to be tested. The teacher will do this by entering test data into cell A1.

(a) Explain the steps that need to be taken to test the formula. Include in your answer any test data used and the reasons why these were chosen.

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(b) When the teacher enters a mark of 50 he expects 'Pass' to be displayed.

State the changes he needs to make to the formula to ensure 'Pass' is displayed.

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(c) When the electronic mark book is complete it needs to be tested with live data.

Explain what is meant by live data.

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2. Nov/2023/Paper_0417/13/No.3(c)

A teacher is setting up a school shop. The teacher is setting up a spreadsheet to keep the accounts of the shop.

(c) The teacher has created a formula in the spreadsheet that calculates the cost of purchasing a number of different items.

She has created a formula that:

- subtracts the discount per item from the price of the item to find the cost of the item
- then multiplies the cost of the item by the quantity.

◢	A	B	C	D	E	F
1	Product	Price of item	Discount per item	Quantity	Total	
2	Choco Bar	$1.20	$0.20	15	–$1.80	

The formula she enters into cell E2 is:

=B2-C2*D2

When this formula is entered into cell E2 the result is **not** what she expected. The result should be $15.00

Explain why the result was **not** $15.00

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