COMP1022Q Review Questions Week 10

Q1) Here is an Excel worksheet.

	A	B	C	D
1				**Fish**
2	**Favourite fish:**	Goldfish ▼		Clownfish
3				Dolphins
4		▯		Goldfish
5		**?**		Lion fish
6				Regal Tangs
7				Sharks

The combo box Form control has its input range set to $D$2:$D$7 and the linked cell is set to B4. What is the value shown in cell B4 ?

Answer: _____

Q2) You open a worksheet and see this.

	A	B	C	D	E	F	G	H	I	
1										
2	Select the month you were born in:				‹	▮			›	
3										
4	You selected this:									

When you right click on the Scroll Bar and select *Format Control* you see this, below.

Format Control

Size	Protection	Properties	Alt Text	Control

Current value: 4

Minimum value: [   ]

Maximum value: [   ]

Incremental change: [   ]

Page change: 10

Cell link: [   ]

☑ 3-D shading

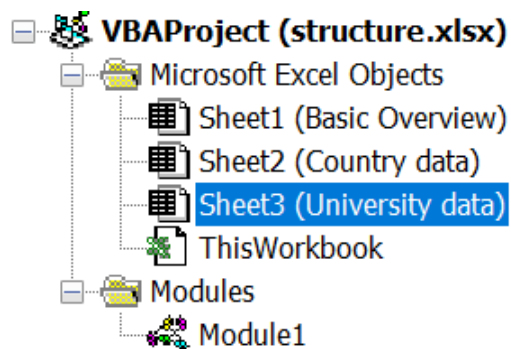In the appropriate places above, you have to fill in the values of the 4 empty cells.

Q3) A student wants to add this subroutine to their Excel file so that the message is automatically shown when their Excel file is opened.

```
Private Sub Workbook_Open()

    MsgBox "Welcome back, I missed you!"

End Sub
```

In which area would this Subroutine go?

Answer: _____

Q4) The following subroutine has been added to an Excel worksheet.

```
Private Sub Worksheet_SelectionChange(ByVal Target As Range)

    If Target.Column Mod 2 = 0 Then
        Cells(Target.Row, Target.Column).Interior.Color = vbRed
    End If

End Sub
```

Assuming the worksheet is empty initially, which one of the following worksheets is **not** a result of using the above subroutine?
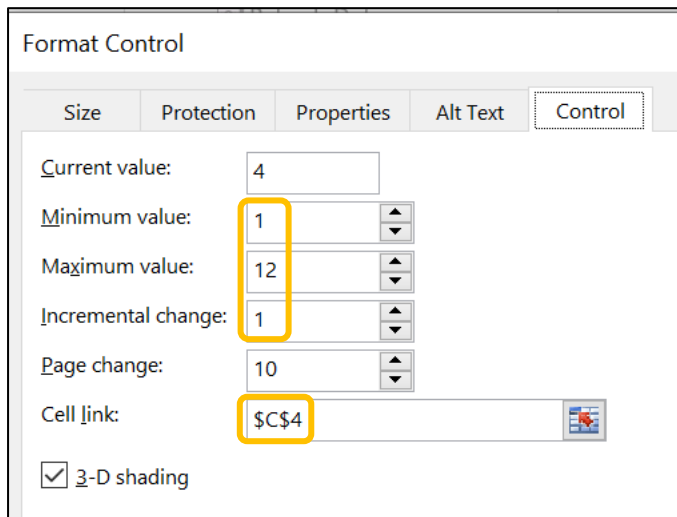
A)

B)

C)

D)

Answer (A/B/C/D): _____

Answers to Week 10 Questions

Q1)   The answer is 3.

The GUI control used in this question (a combo box) outputs the *number* of the selected item. In this case 'Goldfish' is selected, which is the third item in the input range. So the output is 3.
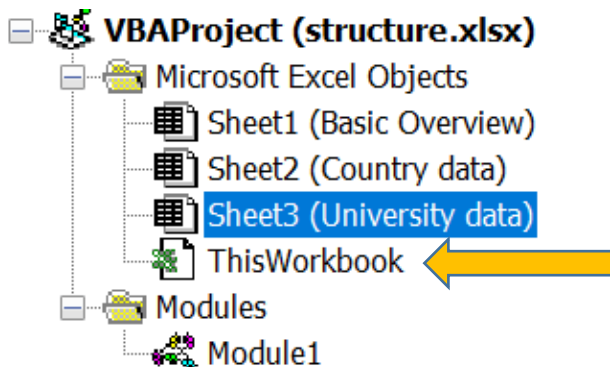
Q2)   The answers are shown below.

An appropriate answer for *Cell link* is $C$4, as shown above, but $D$4 and $E$4, etc, are also good answers.

Q3)   The subroutine would go in the area indicated by the arrow:

Sheet3 is shown with a dark background. This simply indicates it is the currently selected worksheet. It is not related to the question.

Any subroutine which handles a *Workbook* event goes in the ThisWorkbook area. After putting the subroutine in that area and then saving, closing, and opening the file, the message will be shown.

Q4)   The answer is C.

Inside the SelectionChange event, the input parameter Target stores the cell that has just been selected. Then, the If statement uses 'Mod 2' to check if the column number of that cell is an even number. That means the If statement will only run the code inside if the column that is being selected is even.

As the code in the If statement changes the colour of the cell to red, only the cells in the even number rows can be changed to red. Answer C has cells in column C (column 3), E (column 5) and G (column 7) changed to red so it cannot be the worksheet created by using the event handler.