

PUSASQF406
Advanced Application of Excel

Time: 2 hours
Total Marks: 60 marks

Note:

- 1. All subs and functions should be written in the workbook itself and the excel file should be saved as an .xlsm file and submitted.**
- 2. Kindly use comments in your code to indicate the question number as well as any explanation that you wish to provide.**
- 3. PLEASE MAKE A BACK_UP COPY OF the EXCEL SHEET SO THAT AN ERRONEOUS MACRO DOES NOT RESULT IN YOUR WORK BEING DELETED**

Q1. Question 1 pertains to Sheet 1:

A)

5 Marks

You are given a VBA code, you have to debug it so that the code can write 1 to 100 in cell A1 to A100.

Write a code that will calculate the cumulative value in the B column for every row.

B)

5 Marks

Use VBA to format your work:

Change the Font size to 14

Font Name to Times New Roman

And the colour of font should be red in every 2nd row, (A2 & B2, A4 & B4,...)

C)

5 Marks

Create an event driven macro:

- 1) That will remove the formatting of a sheet when it is activated
- 2) Will autofit all columns
- 3) Will show a MsgBox asking: "Do you want to change anything else?"
If yes then will hold the cells in the sheet, else it will show a msgbox saying "Okay."

Q2. Question 2 pertains to Sheet 2:

A)

5 Marks

Write a macro that will bifurcate the numbers in sheet 2 as odd/even.

B)

5 Marks

Write a macro that will calculate the sum of even numbers and odd numbers and input their values in cells F4 and F3 respectively..

C)

5 Marks

Create a graph that will show the count of odd and even numbers as bars. Have a properly labelled graph.

Q3. Please solve either part A or B.

30 Marks

Q3A You are given current price of 100 shares and in the next 2 columns you are Given prices on which your strategy will execute. As per the strategy if the Current Price is greater or equal to the price in C column then you buy
Current Price is less than or equal to the price in D column then sell
Else Hold

a. Write a custom function that will return Buy/Hold/Sell according to the strategy, further use VBA to determine the value for each share in the data.

10 Marks

b. Write a custom function that will calculate the brokerage that the broker charges on any transaction.

10 Marks

Amount	Brokerage Rate
Till 10000	1%
10001-50000	0.5%
50001-500000	0.1%
500001-5000000	0.03%
Greater than 50 Lakh	0.005%

Further using VBA and the units given calculate the brokerage for every transaction.

c. On every transaction the trader has to pay a flat tax of 10% after paying brokerage. Create a custom function that calculate Net value of the transaction (net of brokerage and tax) Use VBA code to calculate the same for every transaction.

10 marks

OR

Q3B

Create a UserForm called Employee Form having the following fields:

30 marks

Employee ID
First Name
Last Name
Date of Birth: 3 list boxes (one for date (1 to 31), month (jan to dec) and year (1980 to 2014))
Passport Holder: two options (Yes or No)

All the labels should be centred, bold and font size of 12 and option boxes should have font size of 10

It should have 2 buttons:

Submit: It should append the details inputted in the form.
Cancel: It should hide the form

The command button's font should be bold, font size 10 and centred.

Add a validity check that will ensure all fields are filled with a MsgBox appearing: " ____ field is required" and the cursor being on that field.