

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

Write a macro that will calculate the sum of the numbers in cell D3 with a constraint that it will only sum numbers whose absolute value is greater than 50.

B)

5 Marks

Write a macro that will calculate the number of empty cells in the data given in cell D6.

C)

5 Marks

In the above macros a MsgBox should pop up saying:

"The sum of all values given the absolute value is greater than 50 is ____"

"The number of empty cells is ____"

.

Q2. Question 2 pertains to Sheet 2:

A)

5 Marks

Write an event-driven macro, that runs as soon as Sheet2 is activated. The macro should display a message box asking – Are you ready to get some work done!?

It should have two buttons: Yes and No

On clicking No, display another message box stating: “You don’t have an option!!”

B)

5 Marks

Create a function that can be used to calculate the area of circle from its diameter.

Take $\pi=3.14$ and use it to calculate the same for the data given.

C)

5 Marks

Write a code that will give the circle’s size in the next column. If area is less than 500 then Small, if greater than 500 then Medium, otherwise Big.

Q3. Please solve either part A or B.

(30 Marks)

Q3A

- a) Write a custom function that can calculate factorial for a given number.
 $5! = 5*4*3*2*1$ **(10)**
- b) You are given the data of a property portfolio. You have to create a labelled graph that will plot the number of properties and sum of their asking price according to their location.
Plot line graphs. **(10)**
- c) Write a function that can calculate the harmonic mean for given numbers.
Harmonic mean = $n/((1/x1)+(1/x2)+(1/x3)+...+(1/xn))$ **(10)**

OR

Q3B

Create a userform called currency converter **(30 Marks)**

Currency I have: List Box (Euro, Us Dollar, British Pound)
Currency I want: List Box (Euro, Us Dollar, British Pound)
Text Box: to determine how much is to be converted
Text Box: that will calculate the exchange rate

And the following buttons with the given functionality

Button	Functionality
Go	Calculates the value of conversion

Create a userform that will take 3 things as input and give an output in the second textbox.
It will take the currency you have and you want with the amount and convert it into required currency.