

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 .xslm 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

In the Data sheet you are given data for some insurance policies.

Write a macro that will format the data such that:

Horizontal alignment: centered.

Vertical Alignment: Bottom

Font: Verdana, Font size: 11 and the header should be bold and columns should be auto fitted.

B)

5 Marks

Record a macro that will create a pivot table on a new sheet giving the sum of insured value region wise split by location.

C)

5 Marks

In the corrected data sheet you are given data for 20 policies which has been wrongly pasted in the data sheet, replace the last 20 policies with the data that is in the Corrected data sheet.

Write a macro that can be used to refresh all the pivot tables in a workbook.

Q2. Question 2 pertains to Sheet 2:

A)

5 Marks

Write a macro that will sort the sheet names in the workbook alphabetically.

B)

5 Marks

Write a macro that will protect all the sheets in the workbook with the password "Test123"

C)

5 Marks

Write an event driven macro where a MsgBox will pop up when you close your workbook asking: "Have you saved your work?" with yes and no buttons.

If yes then the workbook will close else it will save the workbook.

Q3. Please solve either part A or B.

30 Marks

Q3A

You are given 3 workbooks having data in them. There are 5 columns in each file (Full Name, Job Title, Country, Gender, Age)

You have to create a macro that will consolidate data into one file on the basis of ethnicity (USA, India, Thailand, Mexico) such that data for each country is on its respective sheet, sheets are named on the basis of ethnicity.

Hint: You can create an additional sheet to and make use of the following code

- `ActiveSheet.Range("A: E"). AutoFilter field: =3, Criteria1:=Country`
- `ActiveSheet.UsedRange. Offset(1,0).SpecialCells(xlCellTypeVisible).Copy`

Q3B

Create a userform called Application form that has the following fields: **(15 Marks)**

Name
Age: this should have a spinner button starting from 0 to 100 with 1 as step
Gender: having 3 options: Male, Female, Others
Mobile No.
Department: this should be a list box having: Risk, Actuarial, Investments, Finance as the options
Salary Expectations (in Lakhs): a spinner button from 0 to 100 and 2 as step

And the following buttons with the given functionality

Button	Functionality
Submit	This submits the information and checks whether a person is eligible or not Eligibility criteria is given below
Clear	Resets the form by making all the text fields blank and hides the form

(15 Marks)

Build in a data validity check in all the fields so that when submit button is clicked.

a. It will check whether or not all fields are filled and will display a message box saying "All fields must be filled" **5 Marks**

b. If age is less than 22 then a message box will be displayed "Sorry!, you are not eligible for this post" **5 Marks**

c. For every department there is a maximum salary, if that exceeds then a message box should appear "Sorry!, you are above our budget". The below table gives the maximum salary for each department: **5 Marks**

Actuarial	50 Lakhs
Risk	40 Lakhs
Finance	30 Lakhs
Investments	75 Lakhs