

Q1. Explain the purpose of **conditional statements** in VBA.

Write an example using **If...ElseIf...Else** that classifies sales performance as:

- “Excellent” if sales \geq 1000
- “Good” if sales \geq 500
- “Needs Improvement” otherwise.

Q2. Write a VBA code that calculates the **total sales** from the range **B2:B10** and displays the result in a message box.

Explain the purpose of each line of code used in the program.

Q3. Explain the use of **loops** in VBA programming.

Write a **For...Next** loop that fills cells A1 to A5 with the values 10, 20, 30, 40, and 50 respectively.

Q4. Discuss the importance of **error handling** in VBA.

Write a short example using **On Error GoTo** to handle division by zero, and explain how the program flow changes when an error occurs.

Q5. Describe the role of **UserForms** in VBA for Excel.

Mention two common controls used in UserForms and explain how they help in user interaction.

Q6. Differentiate between **dynamic arrays** and **fixed arrays** in VBA.

Provide syntax examples to declare and resize each type.

Q7.What are **User Defined Functions (UDFs)** in VBA?

Write a VBA function named **DiscountPrice** that calculates and returns a 10% discount on a given price.

Q8.Explain the **difference between properties and methods** in the Excel Object Model with suitable examples of each.

Q9.Describe the use of the **With...End With** statement in VBA.

Explain how it improves readability and efficiency, using a formatting example for range A1:D1.

Q10.Write a VBA code that creates a **new worksheet named “Summary”**, inserts headers “Region”, “Sales”, and “Target” in A1:C1, and formats the header row to be bold and center-aligned.

Explain how the code uses Excel’s object model.