

This question paper contains 3 printed pages]

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S. No. of Question Paper : 222

Unique Paper Code : 234552

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Name of the Paper : Visual Programming—I

Name of the Course : B.A. (Prog.) Computer Application

Semester : V

Duration : 3 Hours

Maximum Marks : 45

(Write your Roll No. on the top immediately on receipt of this question paper.)

Section A is compulsory.

Attempt any *three* questions from Section B.

Section A

1. (a) What do you mean by event driven programming ? 2
- (b) Name one Visual Basic object. 1
- (c) Name the purpose of .vbp, .ocx, .frm and .bas file type. 4
- (d) What is the purpose of the following functions ? 8
 - (i) Left
 - (ii) Right
 - (iii) Val
 - (iv) IsNumeric.

Section B

2. (a) What are the steps for developing Visual Basic projects ? 4
- (b) Define the following types of errors : 6
 - (i) Compile time error
 - (ii) Run time error
 - (iii) Logic error.

P.T.O.

3. (a) What is Focus for control ? Name the method to set focus on an object. 3
- (b) Explain any *four* data types used in Visual Basic programming. 4
- (c) Change the following properties of the text box “test” using ‘with’ statement : 3
- (i) Set the visible property of the text box as true.
- (ii) Set the font property of the text box as bold and size as 20 points.
- (iii) Clear the text box.
4. (a) Write a program in Visual Basic to calculate the following : 4
- $\text{Future value} = \text{Investment} * (1 + \text{Interest rate})^{\text{Years}}$
- (b) Write a program in Visual Basic to calculate the sum of first 20 even numbers. 6

5.

The screenshot shows a Windows-style application window titled "Form1". The main heading is "ABC Industries - Income Tax Calculator". Below the heading, there are several input fields and controls:

- Name:** A text box containing "Anil Sharma".
- Gender:** Two radio buttons, "Male" (which is selected) and "Female".
- Salary Details:** A section containing three text boxes:
 - Gross Salary:** 10000
 - Deductions:** 2000
 - Net Salary:** 12000
- Calculate Income Tax:** A button located at the bottom right of the form.

ABC Industries computes yearly Income Tax of their Employees using the above interface.

The general features of the interface are as follows :

10

1. The net salary is the difference between Gross Salary and Deductions. The same is visible in the text box for Net Salary i.e. $\text{Net Salary} = \text{Gross Salary} - \text{Deductions}$.

2. The income tax is calculated whenever the Calculate Income Tax Button is clicked that accepts the parameters Net Salary and returns the income tax which is displayed in a message box with the given format Mr/Ms<txtname> Your Income Tax is Rs. 2,500.

The limits and range for Income Tax calculation is as follows :

Net Salary	Income Tax
<=1,50,000	Nil
>1,50,000 and <=2,50,000	10% of Net Salary
>2,50,000	20% of Net Salary

Special rebate for Ladies : Rs. 5,000 on Income Tax i.e. Income Tax = Income Tax – 5,000.

Write the VB code to calculate the Income Tax.

6. (a) Explain the difference between variable and constant. List any *one* user named constant and any *one* intrinsic constant. 4
- (b) Explain the difference between Step Into and Step Over. 4
- (c) What are different logical and relational operators used in Visual Basic ? 2