

[This question paper contains 4 printed pages.]

Sr.No. of Question Paper : 157

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Your Roll No.....

Unique Paper Code : 234552

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

Name of the Paper : Visual Programming – I

Semester : V

Duration : 3 Hours

Maximum Marks : 45

Instructions for Candidates

1. Write your Roll No. on the top immediately on receipt of this question paper.
2. Section – A is compulsory.
3. 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

P.T.O.

SECTION – B

2. (a) What are the steps for developing Visual Basic projects ? (4)
- (b) Define the following types of errors :
- (i) Compile time error
 - (ii) Run time error
 - (iii) Logic error (6)
3. (a) What is a Visual Basic event ? Name any two events. (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.
- (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. (3)
4. (a) Write a program in Visual Basic to calculate the following
Future value = Investment $\times (1 + \text{Interest rate})^{\text{Years}}$ (4)
- (b) Write a program in Visual Basic to calculate the sum of first 20 even numbers. (6)

5.

The screenshot shows a Windows application window titled "Form1" with the main title "ABC Industries - Income Tax Calculator". The interface contains the following elements:

- Name:** A text box containing "Amit Sharma".
- Gender:** A group box containing two radio buttons: "Male" (which is selected) and "Female".
- Salary Details:** A group box containing three text boxes: "Gross Salary" with the value "10000", "Deductions" with the value "2000", and "Net Salary" with the value "12000".
- Calculate Income Tax:** A button located to the right of the Salary Details group box.

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. Net Salary = Gross Salary – 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. 2500. The limits and range for Income tax calculation is as follows :

Net Salary	Income Tax
$\leq 1,50,000$	Nil
$>1,50,000$ and $\leq 2,50,000$	10% of Net Salary
$>2,50,000$	20% of Net Salary

Special rebate for Ladies : Rs. 5000 on IncomeTax i.e Income Tax = Income Tax – 5000.

Write the VB code to calculate the Income Tax.

P.T.O.

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)