

**Advanced Diploma in Information Technology (ADIT) /
Bachelor in Information Technology (BIT)**

Term-End Examination

June, 2007

CST-104 : VISUAL PROGRAMMING

Time : 2 Hours

Maximum Marks : 50

Note : *There are **two** sections in this paper. Section A consists of objective type questions and short answer type questions. All questions in Section A are **compulsory** and it carries 26 marks. Section B consists of descriptive type questions and carries 24 marks. Answer **two** questions from Section B.*

SECTION A

1. Attempt the following 10 objective type questions. There are four choices for each question. Select the best choice as your answer. If you feel that none of the given choices are correct, then mark '0' as your answer. Each question carries one mark.

10×1=10

- (i) Advantages of VB is/are
- (a) Rapid application development
 - (b) Event driven program concept
 - (c) Create applications with GUI
 - (d) All of the above
- (ii) Relational operator for "Not Equal to" is
- (a) !=
 - (b) ><
 - (c) =NOT
 - (d) NOT=
- (iii) _____ is the set of similar data types.
- (a) Structure
 - (b) Array
 - (c) Union
 - (d) Linked list

- (iv) The file extension for the ActiveX control is
- (a) .VBP
 - (b) .OCX
 - (c) .VBE
 - (d) .VBA
- (v) An action that an object is capable of performing is called as
- (a) Property
 - (b) Event
 - (c) Method
 - (d) None of the above
- (vi) '^' is the operator for performing the _____ arithmetic operation.
- (a) Addition
 - (b) Multiplication
 - (c) Subtraction
 - (d) Exponentiation
- (vii) The window that describes every individual element of a form is
- (a) Form window
 - (b) Property window
 - (c) Project window
 - (d) None of the above
- (viii) _____ contains the controls, which one can use in the creation of a form.
- (a) Menu
 - (b) Tool Box
 - (c) Tool bar
 - (d) Project window
- (ix) Str is the function used to
- (a) return the length of the string
 - (b) concatenate two strings
 - (c) convert the number values to string values
 - (d) delete the left-most character in a string
- (x) _____ enforces the variable declaration before they are used.
- (a) Option Explicit
 - (b) Option Implicit
 - (c) REM
 - (d) None of the above

2. Write an event procedure for a command button to find the sum of the digits of a 5-digit number. Also, draw a sample layout for the user interface with appropriate controls.

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3. Write an event procedure to display the individual words of a given English sentence on different consecutive lines.

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SECTION B

*There are three questions in this section (numbered 4 to 6). Attempt any **two** questions. This section carries 24 marks.*

4. (a) What is an ActiveX DLL ? Write a sequence of steps to create an ActiveX DLL. 8
- (b) Briefly explain the usage of the following controls in VB applications/forms : 4
- (i) Combo Box
 - (ii) Data control
 - (iii) Timer control
 - (iv) Option button
5. Write sequence of steps to be followed to design a menu similar to that of a Notepad containing the options (File, Edit, Search and Help) with various sub-options associated with them. 12
6. (a) Explain the use of WINDOWS API in Visual Basic IDE. 6
- (b) Write an event procedure to display the factorial of a given number. 6