Bachelor in Information Technology (BIT)

Term-End Examination

December, 2006

CSI-15 : VISUAL PROGRAMMING

Time : 3 Hours   *Maximum Marks : 75*

Note :   *There are **two** sections in this paper. Section A is **compulsory** which consists of 10 objective type questions and three descriptive type questions. Section B consists of 4 questions from which you have to answer any **three**.*

SECTION A

1.   There are 10 objective type questions. There are four choices given for each question. Select the correct choice. If you feel that none of the given choices is correct then write '0' as your answer. Attempt all the questions. Each question carries one mark.   *10×1=10*

   (i)   % is the suffix character for

      (a)   Integer

      (b)   Currency

      (c)   String

      (d)   Double

   (ii)   ∧ is the operator used to find

      (a)   Remainder

      (b)   Quotient

      (c)   Product

      (d)   None of the above

   (iii)   The file extension for a **form** file of VB is

      (a)   .cls

      (b)   .ocx

      (c)   .vbp

      (d)   .frm

(iv) DDB financial function is used to

    (a) return the interest rate

    (b) return the depreciated value of an asset for a specific duration

    (c) return the future value of an investment

    (d) None of the above

(v) An action that an object is capable of performing is called as

    (a) event

    (b) property

    (c) method

    (d) characteristic

(vi) _____ contains the controls, which one can use in the creation of the user interface.

    (a) Tool Bar

    (b) Tool Box

    (c) Progress Bar

    (d) Status Bar

(vii) ADO stands for

    (a) Active Data Object

    (b) ActiveX Data option

    (c) ActiveX Document

    (d) None of the above

(viii) In VB, the menu interface for the application can be designed using

    (a) Menu Designer

    (b) Menu Wizard

    (c) Menu Editor

    (d) Menu Builder

(ix) API stands for

    (a) Application Performing Interface

    (b) ActiveX Application Interface

    (c) ActiveX Programming Interface

    (d) Application Programming Interface

(x) To run the VB application, we press

    (a) F1

    (b) F3

    (c) F5

    (d) F10

2. Write the full forms for the following :   *5*

    (i) MDI

    (ii) RDO

    (iii) IIS

    (iv) OLE

    (v) ODBC

3. Write an event procedure to take the first name, middle name and the last name of a person in 3 separate text boxes as input and display the complete name in a different text box. Also, count the number of characters in the complete name and display the same. Draw the sample user interface with appropriate controls.   *8*

4. Write an event procedure to find the largest number among the three numbers given as input. Write the code for the splash screen also.   *7*

SECTION B

*Answer any **three** questions from this section.*

5. (a) Explain the usage of the following controls on the form :   *7*

        (i) List Box

        (ii) VScroll Bar

        (iii) Data Control

        (iv) OLE

        (v) Picture box

        (vi) Command button

        (vii) Progress bar

  (b) Write an event procedure to find the sum of the digits of a given number. Draw the sample interface. Also, place an EXIT button to quit from the application.   *8*

6. (a) Write an event procedure to find the sum of the following series : 8

$$s = 1 + 2^2 + 3^2 + 4^2 + 5^2 + ...$$

Draw the sample interface for the application.

(b) Write an event procedure to generate the first 5 elements in a fibonacci series. 7

7. (a) Write an event procedure to simulate a penalty calculation application for a library. Mention the assumptions made. Also, design the sample layout with appropriate controls. 10

(b) Explain the following command button events : 5

(i) Lost focus

(ii) Drag Drop

(iii) Mouse Move

(iv) Key Down

(v) Double click

8. (a) What is a database ? Explain the sequence of steps to be followed to create a database using the Data Manager. 7

(b) Write an event procedure to simulate multiplication by addition. Your program should accept two integers as input and display the result.

(Example : $2 \times 5 \Rightarrow 2 + 2 + 2 + 2 + 2 = 10$)

Draw the sample interface and also write the code for the splash screen. 8