BACHELOR OF COMPUTER APPLICATION
FOURTH SEMESTER
PROGRAMMING WITH VB.NET
BCA-403
(Use separate answer scripts for Objective & Descriptive)

Duration : 3 hrs.   Full Marks : 70

(**PART-A : Objective**)

Time : 20 min.   Marks : 20

Choose the correct answer from the following: *1X20=20*

1. The default property for a text box control is.............................
    a. Text   b. Enable
    c. Multiline   d. Password char

2. .... is a collection of files.
    a. Class   b. Group
    c. Project   d. All of these

3. The method which loads the form into memory and displays it on screen
    a. Load   b. Show
    c. Display   d. All of these

4. ....array size can be changed at run-time.
    a. Fixed   b. Preserve
    c. Dynamic   d. Multidimensional

5. ....control executes the timer events at specified intervals of time.
    a. Clock   b. Frame
    c. Timer   d. Digital

6. ....does not return a value.
    a. Sub procedure   b. Function procedure
    c. Property procedure   d. All of these

7. A .... variable is one that is declared inside a procedure.
    a. Global   b. Local
    c. External   d. All of these

8. MDI stands for...............
    a. Multiple Document Interface   b. Multiple Design Interface
    c. Manipulated Document Interface   d. Menu Design Interface

9. The .... is a tool used for both the input and output purpose.
    a. Label   b. Text box
    c. Combo box   d. Command button

10. ....control is used to represent the items in a hierarchical manner.
    a. Tree view   b. Grid view
    c. Progress bar   d. None of these

11. Which is not a property of the common control class?
    a. Font
    b. BackColor
    c. Show
    d. ForeColor

12. Which is not an integer data type?
    a. Single
    b. Byte
    c. Long
    d. Short

13. A GUI
    a. Uses buttons, menus, and icons.
    b. Should be easy for a user to manipulate.
    c. Stands for Graphic Use Interaction.
    d. Both (a) and (b)

14. Which is not a main component of the visual studio IDE?
    a. Solution Explorer
    b. Tool Box
    c. Properties window
    d. Start Menu

15. An object is composed of
    a. Properties
    b. Methods
    c. Events
    d. All of these

16. Which does the solution explorer not display?
    a. Form properties
    b. Reference Folder
    c. Form File
    d. Assemble File

17. The ---------------------- Object is required to connect to a database.
    a. Command
    b. Connection
    c. Adapter
    d. Dataset

18. In VB.Net, ---------------------- is used to query and write to a database.
    a. Access
    b. Connection object
    c. Command
    d. SQL

19. The -------------- will hold a copy of the information from the database.
    a. Connection
    b. Command
    c. Dataset
    d. Data Adapter

20. ----------------- is the ability to create procedures that can operate on objects of different types.
    a. Abstraction
    b. Encapsulation
    c. Polymorphism
    d. Inheritance

-- --- --

[2]

(**PART-B : Descriptive**)

Time : 2 hrs. 40 min.   Marks : 50

[Answer question no.1 & any four (4) from the rest]

1. What is a class & object? Explain with examples. Explain the different access specifiers in VB.NET.   5+5=10

2. Write a procedure to insert data to a database and write another sub procedure to display the contents of the database on a data grid view in VB.NET.   5+5=10

3. What is inheritance? Explain inheritance with the help of a program.   3+4+3=10

4. What is Visual Basic.Net? Explain the components of .NET framework. What are the different types of application can be developed using .NET framework?   2+5+3=10

5. What do you mean by scope of a variable? Write a console program in VB.NET to calculate the factorial of a given number.   2+8=10

6. Give the graphical user interface for an alarm and write the coding for the same in VB.NET.   2+8=10

7. What is the difference between Sub procedure and function in VB.NET? Write a program in VB.NET to exchange two integer data using function.   2+8=10

8. What are the checkboxes? Develop a windows application for an organization to know from what are the sources like – Friends, Website, News Paper, and Other, they have come to know about the organization. If Other option is selected then the application should provide a Textbox for supplying the information. Finally when "SUBMIT" button is clicked, the application will display the selected information.   2+8=10

= = *** = =

[3]