Professional Course (Odd) Examination, 2022

(5th Semester)

BACHELOR OF COMPUTER APPLICATIONS

Course No. : BCA/5/CC/27

(GUI Programming)

(Revised)

Full Marks : 75

Time : 3 hours

The figures in the margin indicate full marks for the questions

(PART : A—OBJECTIVE)

(*Marks* : 25)

SECTION—I

(*Marks* : 15)

A. Choose and write the correct answer :   1×10=10

   1.   Conversion function to convert an expression to string is

     (a) Cstring

     (b) Csng

     (c) Cstr

     (d) Val

1   *[Contd.*

2. Function to show current date and time is

 (a) date( )

 (b) time( )

 (c) now( )

 (d) day( )

3. The shortcut key to halt or stop the execution is

 (a) Ctrl + End

 (b) Ctrl + Break

 (c) Esc

 (d) Enter

4. Which property of a given control gets or sets the tab order of the control within its container?

 (a) Index

 (b) Name

 (c) TabIndex

 (d) SetFocus

5. The minimum number of executions for a while loop is

 (a) 0

 (b) 1

 (c) −1

 (d) 2

6. Functions that call itself are called

 (a) recursive

 (b) factorial

 (c) call by value

 (d) call by reference

7. What is an abstraction in object-oriented programming?

   (a) Hiding the implementation and showing only the features

   (b) Hiding the important data

   (c) Hiding the implementation

   (d) Showing the important data

8. Which is not a feature of OOP in general definitions?

   (a) Efficient code

   (b) Code reusability

   (c) Modularity

   (d) Redundant data

9. VB application is very popular as _____ to many client/server database systems.

   (a) front end

   (b) back end

   (c) Both (a) and (b)

   (d) None of the above

10. What does ADO stand for?

   (a) Active Data Objects

   (b) ActiveX Data Object

   (c) ActiveX Date Objects

   (d) Active Date Object

B. Write True or False : 1×5=5

1. The Boolean data type can have only two values.

2. The name and text property of a control must always be same.

3. The syntax errors are the easiest type of errors to spot and fix.

4. Data members of a class can be accessed by using the dot operator.

5. Datagrid control can be used to display the entire table of a recordset of a database.

SECTION—II

(*Marks* : 10)

C. Answer the following questions : 2×5=10

1. What is meant by MSIL?

   OR

   Define variables and keywords.

2. What is meant by an event?

   OR

   Name any four properties of a date time picker.

3. Write a simple program to illustrate while loop.

   OR

   What is the use of exit and continue statement in a loop?

4. Define class. Give example.

   OR

   What is destructor in OOPS concept?

5. What is the use of DataGridView control?

   OR

   Define primary key. Give example.

(PART : B—DESCRIPTIVE)

(Marks : 50)

D. Answer the following questions :   10×5=50

1. *(a)* Illustrate and explain the .NET architecture with a neat diagram.   10

   OR

   (b) Explain with example any six types of arithmetic operator.   6

   (c) Why is VB called event-driven programming?   4

2. *(a)* Define MenuStrip. Write the procedure to add a MenuStrip in a form.   10

   OR

   (b) Write any five properties and events of Button and ListBox control.

3. *(a)* Differentiate between function and subprocedure.   4

   (b) Explain the different types of arrays with example.   6

   OR

   (c) Write a simple VB program to illustrate recursive function.   5

   (d) Explain the working of if ... else statement with a simple example.   5

4. *(a)* Explain the concept of method overloading with example.   6

   (b) What are the different types of access modifiers?   4

   OR

   (c) What is meant by inheritance in OOPS? Write a simple code to explain inheritance.   6

   (d) Write the advantage of OOPS over procedural programming.   4

5. *(a)* What is meant by data binding? How do you bind text box to a database?   6

   (b) What are the advantages of using ADO.NET?   4

   OR

   (c) What is data provider? Explain the objects of data provider in detail.   10

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