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Name.....

Reg. No.....

**FOURTH SEMESTER (CUCBCSS—UG) DEGREE EXAMINATION  
APRIL 2021**

**Computer Science**

**BCS 4C 04—VISUAL PROGRAMMING**

**(2014 Admissions)**

Time : Three Hours

Maximum : 64 Marks

**Part A**

*Answer all questions.*

*Each question carries 1 mark.*

1. \_\_\_\_\_ are the standard prefixes for the button and combo-box controls in .Net.
2. In VB.Net which data type accepts only true or false values.
3. What does FCL stands for ?
4. Which keyword is used to convert a string to number ?
5. \_\_\_\_\_ property in array class of VB.Net returns an integer indicating the number of dimensions of the array.
6. Which statement is used to select specific field from a table ?
7. OLE stands for \_\_\_\_\_.
8. Group Box is similar to \_\_\_\_\_.
9. The first step of configuring a DataAdapter is to select \_\_\_\_\_.

(9 × 1 = 9 marks)

**Part B**

*Answer all the questions.*

*Each question carries 2 marks.*

10. What do you mean by event driven programming ?
11. What is with statement? Explain with syntax and example.
12. What is the function of MsgBox and Input Box ?

**Turn over**

13. How can you validate the data user enter into controls ?
14. How do you access data using data adapter control ?

(5 × 2 = 10 marks)

### Part C

*Answer any five questions.  
Each question carries 5 marks.*

15. Explain the concept of event driven programming.
16. Explain different parts of VB IDE
17. What are the different properties and key words used for Date and Time ?
18. What is the use of Do Loop ? Explain different types.
19. Explain any five basic controls with examples.
20. Explain object and classes in VB.
21. How to create Label using Label class ? Explain with suitable example.
22. Write down the code needed for moving next, previous and first record of a data set.

(5 × 5 = 25 marks)

### Part D

*Answer any two questions.  
Each question carries 10 marks.*

23. What is an exception ? Explain different exception handling techniques used in VB.
24. What are the different decision and selection making statements ? Explain each with example..
25. Write short notes on :
  - (a) String functions used in VB.
  - (b) Handling of multiple forms.
  - (c) Text boxes and Rich Text Boxes.
  - (d) Accessing data with the server explorer in ADO.NET.

(2 × 10 = 20 marks)

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Name.....

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**FOURTH SEMESTER (CUCBCSS—UG) DEGREE EXAMINATION  
APRIL 2020**

Computer Science

BCS 4C 04—VISUAL PROGRAMMING

(2014 Admissions)

Time : Three Hours

Maximum : 64 Marks

**Part A**

*Answer all questions.  
Each question carries 1 mark.*

1. IDE stands for \_\_\_\_\_.
2. \_\_\_\_\_ is the function for adding the specified number of days to a DateTime object.
3. Modulus operator in VB.NET is \_\_\_\_\_.
4. The \_\_\_\_\_ statement is used to declare the name, parameter and the body of a sub procedure.
5. A constructor has the name \_\_\_\_\_ and it does not have any return type.
6. \_\_\_\_\_ is the container for all the controls that make up the user interface.
7. \_\_\_\_\_ property gets or sets the currently selected item in the list box.
8. The \_\_\_\_\_ control is used to provide a set of mutually exclusive options.
9. The event handlers of the KeyDown and KeyUp events get an argument of type \_\_\_\_\_.

(9 × 1 = 9 marks)

**Part B**

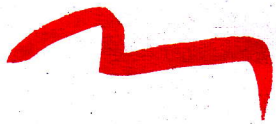
*Answer all questions.  
Each question carries 2 marks.*

10. What is the purpose of a Picture box control ?
11. Explain OLE.
12. What are the different ways by which you can create a DateTime object ?
13. What is the purpose of finally in exception handling ?
14. What is a data adapter ?

(5 × 2 = 10 marks)

Turn over

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**Part C**

*Answer any five questions.  
Each question carries 5 marks.*

15. Explain with examples how to :
  - (a) Compare two strings.
  - (b) Extract a substring from a string.
16. Explain dynamic arrays with an example.
17. Mention any 10 events for a form and explain when it happens.
18. Explain Message box function with its syntax.
19. Explain the concept of class and objects with an example.
20. Mention various mouse events and explain when each event occurs.
21. Explain *on error go to* in exception handling.
22. Explain how will you create a connection to a database using ADO.NET.

(5 × 5 = 25 marks)

**Part D**

*Answer any two questions.  
Each question carries 10 marks.*

23. Explain various types of *if* statements and select case statements in VB.NET with syntax and examples.
24. Explain how to create the following controls with their any *five* properties each :
  - (a) Textbox.
  - (b) Command button.
25. Explain different types of statements with example.

(2 × 10 = 20 marks)

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**FOURTH SEMESTER B.Sc. DEGREE EXAMINATION, APRIL 2019**

(CUCBCSS—UG)

Computer Science

BCS 4C 04—VISUAL PROGRAMMING

(2014 Admissions)

Time : Three Hours

Maximum : 64 Marks

**Part A**

*Answer all questions.*

*Each question carries 1 mark.*

1. Which is the default Visual Basic data type ?
2. IDE stands for \_\_\_\_\_.
3. Which data type accepts only true or false values ?
4. The use of Val keyword is \_\_\_\_\_.
5. The statement that is used to select a specific field from a table is \_\_\_\_\_.
6. Instances of class are called \_\_\_\_\_.
7. MDI stands for \_\_\_\_\_.
8. \_\_\_\_\_ do not return a value.
9. The \_\_\_\_\_ allows direct exit from a For loop, Do loop, Subprocedure or Function Procedure.

(9 × 1 = 9 marks)

**Part B**

*Answer all the questions.*

*Each question carries 2 marks.*

10. Explain the concept of event driven programming.
11. Write short notes on how you handle dates and times in VB.Net.
12. List Controls in Windows Forms to Select Data from a list of VB.Net.
13. How do you handle exceptions in VB.Net ?
14. How do you access data using data adapter control ?

(5 × 2 = 10 marks).

Turn over

**Part C**

*Answer any five questions.  
Each question carries 5 marks.*

15. Explain the .Net Framework.
16. Comment on Strings and String functions in VB.Net.
17. Explain how we select multiple items in a list box.
18. Explain any five basic controls with examples.
19. Explain Inheritance in VB.Net.
20. Describe how to create a new data connection with ADO.Net.
21. What are the differences between procedures and functions ?
22. Explain Protected Access Modifier in VB.Net.

(5 × 5 = 25 marks)

**Part D**

*Answer any two questions.  
Each question carries 10 marks.*

23. What are loop statements ? Explain any three loop statements in VB.
24. Describe how to bind data to controls with a suitable example.
25. Write short notes with respect to VB.Net on :
  - (a) InputBox function.
  - (b) Handling of mouse events.
  - (c) Handling of keyboard events.
  - (d) MsgBox function.

(2 × 10 = 20 marks)

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Name.....

Reg. No.....

**FOURTH SEMESTER B.Sc. DEGREE (SUPPLEMENTARY) EXAMINATION  
APRIL 2017**

(UG—CCSS)

Complementary Course

CS 4C 04—VISUAL PROGRAMMING

Time : Three Hours

Maximum : 30 Weightage

I. Answer *all* questions :

- 1 \_\_\_\_\_ is used for finding out about objects, properties and methods.
- 2 One or more options buttons controls can be selected from \_\_\_\_\_ choices.
- 3 \_\_\_\_\_ is a data type that can be used to declare a text of maximum 10 million characters.
- 4 A module-level is available to all the \_\_\_\_\_ in the module.
- 5 The \_\_\_\_\_ statement checks in the module for usage of any undeclared variables and reports an error to the user.
- 6 \_\_\_\_\_ function translates a numeric value to a variable.
- 7 \_\_\_\_\_ box provides a set of choices to the user.
- 8 Option button can be grouped in a \_\_\_\_\_ control.
- 9 The function procedures are \_\_\_\_\_ by default.
- 10 The default datatype for VB is \_\_\_\_\_.
- 11 When the user click a button \_\_\_\_\_ is triggered.
- 12 \_\_\_\_\_ is used to step through each line of code as it executes, including calls to other function.

(12 × ¼ = 3 weightage)

II. Answer *all* questions :

- 13 What is err object ? How it is implemented ?
- 14 What is control array ?
- 15 Differentiate event driven programme from data driven programme ?
- 16 Define ActiveX control ?
- 17 What are SDI and MDI ?

Turn over

- 18 Explain input function ?
- 19 Define rich text box ?
- 20 Different types of record set ?
- 21 What are data bound controls ?

(9 × 1 = 9 weightage)

III. Answer any *five* questions :

- 22 Write a code to find prime numbers between 1 to 50, using while.
- 23 Define Binary file ?
- 24 What are the advantages that visual basic have, which makes it an excellent programming tool ? Explain about bit map protocols.
- 25 List all operators in VB.
- 26 What is a Combo box ? List its properties and methods.
- 27 What is Function ? Write its general syntax.
- 28 How can you pass variable number of arguments and optional procedure arguments ? Explain.

(5 × 2 = 10 weightage)

IV. Answer any *two* questions :

- 29 Explain any *four* visual basic controls ?
- 30 Explain different types of file system.
- 31 Design a simple calculator which does the operations add, subtract, multiply and divide in VB.

(2 × 4 = 8 weightage)

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Name.....

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**FOURTH SEMESTER B.Sc. DEGREE EXAMINATION, APRIL 2017**

(CUCBCSS—UG)

Complementary Course

BCS 4C 04—VISUAL PROGRAMMING

Time : Three Hours

Maximum : 64 Marks

**Part A**

*Answer all questions.*

*Each question carries 1 mark.*

1. What does IDE stand for ?
2. \_\_\_\_\_ is used to step through each line of code as it executes, including calls to other function.
3. Which database is the ADO.NET SqlConnection object designed for ?
4. What is the default modifier for function procedures ?
5. Which property determines whether a control is displayed to the user ?
6. In the statement, Dim Days(7) as String, what part of the array does the number 7 refer to ?
7. The methodology where code is broken into small, logical procedures is called \_\_\_\_\_
8. The first step of configuring a DataAdapter is to select \_\_\_\_\_
9. Setting the Selected Index property of a ListBox to -1 will ?

(9 × 1 = 9 marks)

**Part B**

*Answer all questions.*

*Each question carries 2 marks.*

10. How can you create enumeration data type ?
11. What are the functions of the components of the common language runtime ?
12. Explain Throw statement.
13. What is an object ?
14. What are the different selection events in combo box ?

(5 × 2 = 10 marks)

Turn over

**Part C**

*Answer any five questions.  
Each question carries 5 marks.*

15. Differentiate MsgBox and InputBox ? Explain any seven MsgBox constants with its description.
16. What are the different VB operators ? Explain .What is its precedence?
17. Explain data connection objects, constraints objects in ADO.NET.
18. How to handle mouse events in VB.NET ? Explain each.
19. How can we select multiple items in a list box ?
20. What is an exception ? How to use Try...Catch...Finally in exception handling ?
21. How to create Modules and constructors in VB.net ? Explain.
22. What are the different properties and key words used for Date and Time ?

(5 × 5 = 25 marks)

**Part D**

*Answer any two questions.  
Each question carries 10 marks.*

23. What are the different decision and selection making statements ? Explain with examples.
24. Explain different steps to access data with the server explorer.
25. How to create Modules and constructors in VB.net ? Explain

(2 × 10 = 20 marks)

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Name.....

Reg. No.....

FOURTH SEMESTER B.Sc. DEGREE EXAMINATION, APRIL 2016

(CUCBCSS—UG)

Complementary Course

BCS 4C 04—VISUAL PROGRAMMING

Time : Three Hours

Maximum : 64 Marks

Part A

Answer all questions. Each question carries 1 mark.

1. What is another name for Exception ? *Error*
2. Which part of a function procedure declaration statement is optional ?
3. What is the use of the Val keyword ? *Convert text data numeric value.*
4. The methods declared with \_\_\_\_\_ modifiers are not accessible outside the current VB.NET project.
5. What is FCL stands for ? *Frame work class Library vs Std library microsoft*
6. Which statement is used to select specific field from a table ?
7. Which keyword/statement is used to deleting a record from a dataset ?
8. What is the default value for the Step in the For ... Next statement ? *1*
9. Which selection process is an example of multiple branches from a single expression ? *Select Case.*

(9 x 1 = 9 marks)

Part B

Answer all questions. Each question carries 2 marks.

10. Explain ReDim statement.
11. What is with statement ? Explain.
12. What is CLR ? Explain.
13. What is a DataSet ? *disconnected, independent caching of data in relational fashion updating data source*
14. What is meant by binding data to control ?

(5 x 2 = 10 marks)

Turn over

FCL is collection of reusable classes, interfaces and value type

with object structure and with

one or more tables

tb, button, etc. Simple binding

Complex binding control - Lists, checked lists

Expand -> data binding property (Advanced binding)

Array exactly a looping construct. It enforces a series of statement that repeatedly refers to a single object as structure.

is used to size or resize a dynamic array that has already been formally declared using Private, Public, ReDim statement, respectively. Provides - connect to data source.

### Part C

Answer any five questions.  
Each question carries 5 marks

- ✓ 15. How to create constructors in VB.NET? Explain.
- ✓ 16. Explain how to use optional argument. What is its use?
- ✓ 17. What is an exception? How to use Try...Catch...Finally in exception handling?
18. Write down code for moving next, previous and first record.
- ✓ 19. How can we select multiple items in a list box? Explain.
- ✓ 20. What are the different data type conversion functions in VB? Explain.
- ✓ 21. How to create Label using Label class? Explain with suitable example.
22. Design a message box that gives a message whenever the user tries to Quit from the particular form. Give the steps involved in designing the message box

(5 × 5 = 25 marks)

### Part D

Answer any two questions.  
Each question carries 10 marks.

23. How to handle string in VB.NET? Explain different string handling functions and methods.

24. How to access data with the server explorer in ADO.NET? Explain.

25. Write a note on :

(a) MsgBox function.

(b) MessageBox.show.

(c) InputBox Function.

(d) Creating Dialog Box.

Displays a message in a dialog box, default for the user to click a button, and then returns an integer indicating which button was clicked.

Displays a message box with text caption as button.

Display a prompt dialog box, wait for the user to click a button, and then returns a string capturing the content of the text box.

(2 × 10 = 20 marks)

using WinForm Designer  
Add Control such as Label  
Text box, Button to customize

dialog boxes design  
specifi needs

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Name.....

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**FOURTH SEMESTER B.Sc. DEGREE (SUPPLEMENTARY/IMPROVEMENT)  
EXAMINATION, MAY 2016**

(UG—CCSS)

Complementary Course

CS 4C 04—VISUAL PROGRAMMING

Time : Three Hours

Maximum : 30 Weightage

I. Answer *all* questions :

- 1 The default Visual Basic data type is \_\_\_\_\_.
- 2 The location of the form on the desktop during execution is determined by the :
  - (a) Project Explorer window. (b) Context Menu.
  - (c) Form Layout window. (d) Form Designer window.
- 3 \_\_\_\_\_ is a combination of textbox and listbox.
- 4 A textbox is an example of which of the following ?
  - (a) Property. (b) Control.
  - (c) Method. (d) Event.
- 5 \_\_\_\_\_ buttons provide mutually exclusive selection.
  - (a) Option. (b) Par.
  - (c) Rules. (d) Objects.
- 6 The \_\_\_\_\_ event occurs before the form is displayed.
- 7 The \_\_\_\_\_ displays a list of all forms and modules making up your application.
  - (a) Project Window. (b) Property window.
  - (c) Toolbox. (d) Menu.
- 8 \_\_\_\_\_ are a convenient way to handle groups of controls that perform a similar function.
- 9 The \_\_\_\_\_ allows to define the menu structure.
- 10 A \_\_\_\_\_ variable occupies only 8 bits.
- 11 The Tick event is found only in \_\_\_\_\_ Object.
- 12 \_\_\_\_\_ the simplest control in the Visual Basic toolbox.

(12 × ¼ = 3 weightage)

Turn over

13- Structure of the programming language is simple. particularly as to the executable code. VB is not only language. But primarily integrated development environment

II. Short answer type questions. Answer all nine questions :

Each object in VB is class described by variable properties and methods

It can be used to write code for events that are time related.

- 13 Explain the advantage of VB.net.
- 14 Why VB is called a smart language?
- 15 What is meant by option explicit?
- 16 Explain about the Data object.
- 17 Define a class.
- 18 What is an array?
- 19 Define the timer.
- 20 Define a dataset.
- 21. What is an input box?

VB is third generation programming language. It appears as if you must explicitly declare all variables by using the Dim statement. Logical clusters of data tables in dataset that have common column containing data related to the same business entity.

21) Specially defined dialog box that allows programmer to request a value for the user and use that value necessary. (9 x 1 = 9 weightage)

III. Short Essay or Paragraph Questions. Answer any five questions :

- 22 Explain about functions with suitable examples. Differentiate Select case and choose.
- 23 What is a Menu editor? Explain.
- 24 What is the Difference modal and modless window?
- 25 Explain about object oriented programming.
- 26 Explain about datagrid with example.
- 27 What is ADO? Explain.

is a bit different from the other resource editor because rather than being a collection of properties a menu resource stores a tree of submenus and menu items.

Actual data object is an application property.

is a programming language more def organized and objects rather than arrays and data rather than logic. (5 x 2 = 10 weightage)

IV. Essay Questions. Answer any two questions :

- 28 Explain any five basic controls with examples.
- 29 What is looping explain any four looping technique in VB?
- 30 Design application for warehouse. The database contains the field's item code, name, unit price, quantity, date. Perform insert and search operation. Also produce the report for a particular item.

(2 x 4 = 8 weightage)