

**BCA 5th Semester Exam., 2019**

**WINDOWS PROGRAMMING USING VB.NET**

*Time : 3 hours*

*Full Marks : 60*

*Instructions :*

- (i) The marks are indicated in the right-hand margin.
- (ii) There are **SEVEN** questions in this paper.
- (iii) Attempt **FIVE** questions in all.
- (iv) Question Nos. **1** and **2** are compulsory.

1. Choose the correct option of the following  
(any six) :  $2 \times 6 = 12$

(a) Which one is a numeric data type?

- (i) Floating point
- (ii) Integer
- (iii) Boolean
- (iv) Both (i) and (ii)

(b) MOD is \_\_\_\_ operator in VB.NET.

- (i) assignment
- (ii) logical
- (iii) arithmetic
- (iv) comparison

(c) How many types of operator are used in VB.NET?

- (i) 2
- (ii) 3
- (iii) 4
- (iv) 5

(d) Which of the following VB.NET loops is not a pretest loop?

- (i) for loop
- (ii) while loop
- (iii) do while loop

(e) The EXIT command is used to exit a loop in VB.NET language.

- (i) True
- (ii) False

(f) Which of the following statements about the while loop is not true?

- (i) The while loop is a post-test loop.
- (ii) Testing condition is made before each iteration.
- (iii) The while loop statement must terminate with a semicolon.

- (g) In VB.NET, when an array is partially initialized, the rest of its elements will automatically be set to zero.
- True
  - False
- (h) The new keyword can be used to allocate spaces for an array.
- True
  - False
- (i) An array object has a length property that can be used to find the number of elements in the array.
- True
  - False
- (j) If you have an array of 20 elements, what is the good way to assign a value to each element?
- Assigning each element individually without using a loop
  - Using a loop to assign a value to each element

2. Answer any *three* of the following questions :

$4 \times 3 = 12$

- (a) What is the difference between VB and VB.NET?

- (b) Define the inheritance in VB.NET. Give example.
- (c) What is method overriding in VB.NET? Support your answer with example.
- (d) What is typecasting? Why do we need to explain?
- (e) What is polymorphism in VB.NET?
3. Differentiate between SDI and MDI. Give an example to create the MDI form. 12
4. How is data accessed in .NET? Give the code of connection string to connect with MS access database. 12
5. What are data providers in ADO.NET? Explain the basic objects of ADO.NET which are used to access the database. 12
6. Discuss VB.NET—features, benefits, drawbacks. 12
7. Discuss data types in visual basic .NET. 12

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