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**Code No. : BC-393**

Online Annual Examination, 2022

**B.C.A. Part III**

**Paper III**

**DOT NET TECHNOLOGY**

Time : Three Hours ] [ Maximum Marks : 80

*Note : Section 'A', containing 10 very short answer type questions, is compulsory. Section 'B' consists of short answer type questions and Section 'C' consists of long answer type questions. Section 'A' has to be solved first.*

**Section 'A'**

*Answer the following very short answer type questions in one or two sentences. 1 × 10 = 10*

1. What is the advantage of JIT compilation ?
2. List the numeric data types of VB.net ?
3. What is the full form of MDI ?
4. What are constructors used for ?
5. What is a DataAdapter class ?
6. What is MSIL ?

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7. Write the syntax of for loop in VB.net ?
8. What is the difference between message box and input box.
9. Which databases can be used to connect with VB.net application ?
10. What is the use of class inheritance in a VB.net application ?

**Section 'B'**

*Answer the following short answer type questions with word limit 150-200. 4 × 5 = 20*

1. Why do we need garbage collection ?

**Or**

What are the uses of names spaces ?

2. Give an example of user defined function or procedure.

**Or**

What is the purpose of conditional statements ?  
Explain with example.

3. What are MDI forms used for ?

**Or**

What are the components of an IDE ?

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4. What are constructors and Destructors ?

**Or**

Explain method overloading with example.

5. Why do you need to connect an application with databases ? Give examples.

**Or**

Explain the ADO.net connectivity with databases.

**Section 'C'**

*Answer the following long answer type questions with word limit 300-500. 10 × 5 = 50*

1. Explain the Common Runtime Library in detail.

**Or**

Explain the features of .Net framework and its applications for software development.

2. Write a VB.net program to demonstrate the use of a for loop.

**Or**

Write a VB.net program to demonstrate the use of an array.

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3. Explain any *five* controls of VB.net.

**Or**

What are menus and sub-menus used for ? Write the steps for adding a menu/sub-menu in a form.

4. Explain the concept of overloading with example.

**Or**

What are the objects and classes in VB.net ? Explain with an example program.

5. Explain the architecture and the different components of a VB.net database application with the help of diagram.

**Or**

Write the steps of creating a database application in VB.net.

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