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Seat No.

[5263]-503

T.Y. B.C.A. (V Sem.) EXAMINATION, 2017

503 : DOT NET PROGRAMMING

(2013 PATTERN)

Time : Three Hours   **Maximum Marks : 80**

N.B. :— (i) *All* questions are compulsory.

      (ii) *All* questions carry equal marks.

      (iii) Draw suitable diagram wherever necessary.

      (iv) Design proper GUI.

1. Attempt any *eight* of the following :   [8×2=16]

   (a) What is garbage collection ?

   (b) Explain any *two* date and time functions in VB.Net.

   (c) What is difference between Write( ) and WriteLine( ) ?

   (d) Enlist any *four* types of errors in VB.Net.

   (e) Define namespace. List any *two* namespace in DotNet.

   (f) What is purpose of exit( ) statement ?

   (g) Enlist any *two* events of keyboard.

   (h) Write any *two* benefits of .Net framework.

   (i) What is MSIL ?

   (j) What is JIT (Just In Time) compiler ?

2. Attempt the following (any *four*) :   [4×4=16]

(*a*)   What is exception handling ? Explain with suitable example.

(*b*)   Explain any *two* control structures in VB.Net with example.

(*c*)   Design GUI and write a code in VB.Net using Rich Textbox :

⇒   Add Font Size in Combo Box (any **5**).

⇒   Select Size and Change text size in Text Box.

(*d*)   Write a VB.Net program to check whether entered string is palindrome or not.

(*e*)   Design GUI and write a code for the following :

(using ADO.Net) (use SQL — server to create db)

⇒   Create table patient(Pid, Pname, Contact, Disease)

⇒   Insert records into table.

⇒   Display appropriate message in messageBox.

3. Attempt the following (any *four*) :   [4×4=16]

(*a*)   Define Interface. Explain with suitable example.

(*b*)   Explain Access specifies in VB.Net.

(*c*)   Write a VB.Net program to move text "Savitribai Fule Pune University" continuously from left to right.

(*d*)   Write a VB.Net program to access a character from keyboard and check whether it is vowel or not. Also display the case of character (using console application).

(e) Design GUI and write code for the following :

⇒ Create a table Teacher(Tid, Tname, Subject)

⇒ Insert the records(Max : 5)

⇒ Search record of a Teacher who teaches 'VB.Net' subject and display result in Gridview.

(Use MS Access to create db)

4. Attempt the following (any *four*) :   [4×4=16]

(a) Explain MyBase and MyClass keywords in detail.

(b) Define CLR and explain services provided by CLR.

(c) Design GUI and write a code for the following :

⇒ Pick a date from DateTimePicker control and display day, month and year in separate textboxes.

(d) Write a program in VB.Net to do the following operation on ComboBox Control :

⇒ Add Item

⇒ Remove Item

⇒ Sort Item.

(e) Define Assembly and explain types of assembly.

5. Write short notes on (any *four*) :   [4×4=16]

(a) Crystal Report

(b) Function overloading

(c) ProgressBar

(d) ADO.Net architecture

(e) Data types.