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(4th Semester)

BACHELOR OF COMPUTER APPLICATIONS

Paper : NET-404

(C # and ASP.NET)

Full Marks : 70

Pass Marks : 45%

Time : 3 hours

(PART : B—DESCRIPTIVE)

(Marks : 45)

*The figures in the margin indicate full marks
for the questions*

1. (a) Write a simple program using the following precedence operators : 5
 - (i) $e = (a + b) * c / d;$
 - (ii) $e = ((a + b) * c) / d;$
 - (iii) $e = (a + b) * (c / d)$
- (b) Differentiate between for loop and for-each loop. 4

(2)

Or

(c) What is namespace? Explain system namespace and write a simple program in C# using namespace.

(d) Explain write () and write line () methods with example.

2. Explain the implicit and explicit conversions of data type with a simple syntax and write down program for implicit and explicit conversions in C#.

Or

Write a C# program to demonstrate the multilevel inheritance and you have to create (Department, student, subject) with data member as dept_name, student_name, no_subject.

3. Define interface in C#. Write down its syntax and with the help of interfaces, write a simple program in C#.

Or

(a) Differentiate between abstract class and interface.

(b) With the help of .NET feature, how garbage collection is categorised and explain it in detail.

(3)

4. What is an exception? Explain all types of built-in support to handle the exception. Write a simple program using try and multiple catch in C#.

Or

What is WinForm control? Write simple code for the following :

(a) Button

(b) Checkbox

(c) Text box

(d) Combo box

5. Write short notes on the following :

(a) Configuration

(b) Server control

Or

What is Web Form? With the help of diagram, explain in detail ASP.NET life cycle.

2023

(4th Semester)

BACHELOR OF COMPUTER APPLICATIONS

Paper : NET-404

(C # and ASP.NET)

(PART : A—OBJECTIVE)

(Marks : 25)

The figures in the margin indicate full marks for the questions

- 1. Put a Tick (✓) mark against the correct answer in the brackets provided : 1×10=10**

(a) ASP.NET is a

- (i) client-side technology ()**
- (ii) server-side technology ()**
- (iii) Both (i) and (ii) ()**
- (iv) None of the above ()**

(b) Which of the following programming languages can be used with ASP.NET?

- (i) C#.NET ()
- (ii) VB.NET ()
- (iii) Both (i) and (ii) ()
- (iv) None of the above ()

(c) What is the correct use of web.config file?

- (i) To store global information and variable definitions ()
- (ii) To configure the domain server ()
- (iii) To configure the domain client ()
- (iv) To store information about web browser ()

(d) Which of the following attributes must be set on a validator control for the validation?

- (i) Control to validate ()
- (ii) Validate control ()
- (iii) Validate to bind ()
- (iv) Validate bind ()

(e) Which of the following is not an ASP.NET event?

- (i) Init ()
- (ii) Import ()
- (iii) Load ()
- (iv) All of the above ()

(f) In _____, a non-virtual method is called which is decided at a compile time.

- (i) late binding ()
- (ii) early binding ()
- (iii) lazy binding ()
- (iv) global binding ()

(g) Web Forms are made up using

- (i) ASPX file ()
- (ii) Code behind file (.cs, .vb, etc.) ()
- (iii) Both of the above ()
- (iv) None of the above ()

(4)

(h) IIS is a

(i) Web browser ()

(ii) Web crawler ()

(iii) Web server ()

(iv) None of the above ()

(i) The first event trigger in an ASPX page is

(i) page_init() ()

(ii) page_load() ()

(iii) page_click() ()

(iv) None of the above ()

(j) The .NET framework which provides automatic memory management using a technique called

(i) serialization ()

(ii) garbage collection ()

(iii) assemblies ()

(iv) overriding ()

(5)

2. Indicate whether the following statements are True (T) or False (F) by putting a Tick (✓) mark : 1×5=5

(a) ASP.NET Web Form is a part of ASP.NET Core.

(T / F)

(b) ASP.NET Web Form supports an event-driven application model.

(T / F)

(c) We can use the click event on image button similar to button control.

(T / F)

(d) CLR is the .NET equivalent of Java virtual machine.

(T / F)

(e) Variables are reserved and cannot be used as identifiers.

(T / F)

3. Answer the following in short :

2×5=10

- (a) What is Microsoft Intermediate Language (MSIL)?

- (b) What is personalization?

(8)

(c) What is HTML server control?

(9)

(d) Differentiate between delegate and event.

(10)

(e) Write the properties of validation controls.
