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B.E / B.Tech (Full Time) DEGREE END SEMESTER EXAMINATIONS, APRIL / MAY 2014

INFORMATION TECHNOLOGY

VI SEMESTER

CS9029: .NET AND C# PROGRAMMING

(Regulation 2008)

Time: 3 Hours

Answer ALL Questions

Max. Marks 100

PART-A (10 x 2 = 20 Marks)

1. Differentiate boxing and unboxing with an example.
2. Can indexers be overloaded? Create a class StudentNames to demonstrate your answer.
3. What is multicasting of a delegate? Give an example.
4. Write a C# program to pass a pointer variable to a swap method as parameter.
5. What are code groups? Name the code access Security Policy tool
6. List the Unicode issues. Differentiate the types of cultures.
7. What is the use of ExecuteNonQuery() and ExecuteReader() methods ?
8. What is AdRotator control in ASP.NET? Give an example.
9. What do you meant by reflection in C#? Write a C# program to view the metadata of a student class.
10. What is CLR hosting?

Part – B (5 x 16 = 80 marks)

11. i. Draw the CLR architecture and explain its components in detail. Explain CLS in .NET by specifying its types. (8)
ii. Write the syntax for declaring derived classes in C#. Create a base class Employee and its derived class Salary. Compute the salary details of the employee with necessary fields. (8)
12. a) i. Write the syntax for declaring and instantiating delegates. Define multicasting of a delegate. (4)
ii. Define a class named ArithmeticOp that has a couple of static methods to perform any two operations on Doubles. Use delegate to call up these methods. Finally display the results of the operations done. (12)

(OR)

- b) i. Write a C# program to retrieve the data value using a pointer. (4)
ii. Write short notes on Memory management and Garbage collection in C# (12)
13. a) i. Write short notes on code access Security and Policy levels (6)
ii Use DateTime structure to perform date formatting and number formatting to impose localization in C#. (10)

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(OR)

- b) i. What is threading and synchronization in C#. Give appropriate namespaces. (4)
ii. Explain the methods and properties of thread. Create a thread and write a thread method to manage the threads. (12)

14. a) Create a web form in ASP .NET to maintain the payment details in a bank server for a railway ticket booking module for a particular day. Include appropriate controls like HTML, Server and validation controls to present an appealing application. (16)

(OR)

- b) Explain ADO .NET data connections. Create a data form which computes the shipping order details of a product based company. Use ADO .NET to illustrate the same. (16)

15. a) What is an assembly and an assembly manifest? List the types of assembly. Write the steps to create a shared assembly with necessary explanation. (16)

(OR)

- b) i. What do you mean by MSIL and JIT compiler? Draw the .NET framework and explain the components. (8)
ii. Explain C# reflection and highlight its uses. Write a C# program to view the metadata of heart disease symptoms. (8)