Reg. No. :

Question Paper Code: 39209

B.E. / B.Tech. DEGREE EXAMINATION, NOV 2018

Elective

Computer Science and Engineering

01UCS909 - C# AND .NET FRAMEWORK

(Regulation 2013)

Duration: Three hours   Maximum: 100 Marks

Answer ALL Questions

PART A - (10 x 2 = 20 Marks)

1. State some of the new features that are unique to c# language.

2. What is the significance of MSIL?

3. List the operators that cannot be overloaded.

4. Illustrate with an example the call to a base class constructor from a derived class.

5. List out the different types of applications that can be created on .net.

6. Define data adapter.

7. Describe the procedure involved with database connectivity.

8. What are the advantages of using server controls over HTML controls?

9. Define multi module assemblies.

10. Define Remoting in .Net Framework.

PART - B (5 x 16 = 80 Marks)

11. (a) (i) Explain the execution model of the .NET framework. (8)

      (ii) With an example define boxing and unboxing. (8)

Or

(b) Explain in detail about checked and unchecked operators in C# with examples. (16)

12. (a) Consider a student class with feet and inches as attributes which describes the height of the student. Write a C# program to overload the + operator and to find the average of N students. (8)

Or

(b) (i) How do you hide a method and override a method? Explain with suitable examples. (8)

      (ii) Compare abstract and sealed classes. (8)

13. (a) Write a windows application in C# for emulating a very basic calculator that performs addition, subtraction, multiplication and division operations. (16)

Or

(b) Apply the methods available for window based applications and build an application to accept the reservation details of a train ticket and to store the details in a database table. Use drop down list box to choose the train number and name. Accept source and destinations in text boxes. Allow the user to enter the date of journey one month in advance. Assume that in each train, there are thirty tickets and every booking should have a unique number. (16)

14. (a) Explain in detail about the lifecycle of a web forms. (16)

Or

(b) Describe the steps in creating web services in .NET technology. (16)

15. (a) Develop an application which requires simple and compound marshalling, Explain how these are performed. (16)

Or

(b) Quote the purpose of remoting and describe the steps involved in the process of creating remoting application. (16)

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