Reg. No. : ☐☐☐☐☐☐☐☐☐☐

Question Paper Code: 31283

B.E. / B.Tech. DEGREE EXAMINATION, MAY 2017

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. What are the different applications of C#??

2. Compare structure with class.

3. Define sealed classes and mention their use.

4. What is method overloading?

5. Give the code segment to fill dataset.

6. What are the different types of Data providers in .Net?

7. Differentiate postback events with non-postback events.

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

9. Distinguish between marshal by value and marshal by reference.

10. Define Remoting in .Net Framework.

PART - B (5 x 16 = 80 Marks)

11. (a) (i) Create a C# program to merge two arrays into a single sorted array.   (8)

    (ii) Develop a C# program to count the number of words in a line of text.   (8)

Or

    (b) (i) Explain in detail about checked and unchecked operators in C# with examples.
                                                                                           (8)

    (ii) List and Explain the Characteristics of C#.   (8)

12. (a) Explain in detail about Interfaces in C# with example.   (16)

Or

    (b) (i) Write a C# program to add two complex numbers.   (8)

    (ii) Summarize the exception handling mechanism in C#. Write user defined exceptions for overflow and stack empty exceptions in a class created for stack data structure.   (8)

13. (a) Discuss about ADO.NET architecture. Build a windows based applications 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.   (16)

Or

    (b) Explain in detail about how SQL server is connected with the ADO.Net with example.   (16)

14. (a) Explain in detail the server side session management techniques available in ASP.Net.   (16)

Or

    (b) (i) Describe the steps in creating web services in .NET technology.   (8)

    (ii) Create an employee database in XML. Read the file from .NET web application.
                                                                                           (8)

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15. (a) Explain in detail about Security in .Net Framework. (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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