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**UNIVERSITY**

(Karunya Institute of Technology & Sciences)

(Declared as Deemed-to-be University under Sec.3 of the UGC Act, 1956)

Reg.No. \_\_\_\_\_\_\_\_\_\_\_\_\_

**End Semester Examination – Nov/Dec - 2016**

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|  |  | **Semester :** | **2016-17 ODD** |
| **Code :** | **10CS201/12CS226/CS255/CS270** | **Duration :** | **3 hrs** |
| **Sub. Name :** | **C# AND .NET PROGRAMMING** | **Max. marks :** | **100** |

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| **Q. No.** | **Questions** | **Marks** |
| **PART-A(10X1=10 MARKS)** | | |
| 1. | Name any two modifiers in C#. | (1) |
| 2. | What is a jagged array? | (1) |
| 3. | The two forms of inheritance are \_\_\_\_\_\_\_\_\_ and \_\_\_\_\_\_\_\_\_\_. | (1) |
| 4. | String is a mutable data type. True or False? | (1) |
| 5. | Define Collection. | (1) |
| 6. | List the levels of ThreadPriority. | (1) |
| 7. | The data adapter is a bridge between \_\_\_\_\_\_\_\_\_ and \_\_\_\_\_\_\_\_\_. | (1) |
| 8. | What are the connection parameters needed in connection string to connect database? | (1) |
| 9. | What is a web server? | (1) |
| 10. | Which attribute is significant for instructing the ASP.NET engine to execute the code on the server rather than sending it to the client? | (1) |
| **PART B(5 X 3= 15 MARKS)** | | |
| 11. | What is the difference between ref and out parameters? | (3) |
| 12. | Write short note about sealed class. | (3) |
| 13. | Discuss about Stack and Queue collection and give example to create it. | (3) |
| 14. | What are the steps involved in the creation of delegate? | (3) |
| 15. | Write about Data Reader. | (3) |
| **PART C(5 X 15= 75 MARKS)** | | |
| 16. | Explain about various looping and conditional statements with clear syntax and example. | (15) |
| (OR) | | |
| 17. | With an example program, explain the concept of inheritance with method overriding in c#. | (15) |
| 18. | Explain the role of delegates and events in C#. | (15) |
| (OR) | | |
| 19. | Explain operator overloading in C# with suitable examples. | (15) |
| 20. | How the user defined exceptions are handled in C#? Demonstrate with an example. | (15) |
| (OR) | | |
| 21. | What is the purpose of multithreading? Explain how synchronization is achieved in multithreading. | (15) |
| 22. | Explain the various standard controls available in Windows Forms. | (15) |
| (OR) | | |
| 23. | Create a windows form application to demonstrate the sum of two numbers on button click event with three textbox and a button. | (15) |
| 24. | Write C# code with ASP.NET to perform insertion, selection and updation operations by direct data access using ADO.NET. | (15) |
| (OR) | | |
| 25. | Describe the features of DataGridView control. | (8) |
| Explain how validation controls can be implemented in ASP.NET applications. | (7) |

ALL THE BEST