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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 :** | **14CS2054** | **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 access modifiers in C#. | (1) |
| 2. | What are the two return types of Main method in C#? | (1) |
| 3. | Will C# support pointers? If so how? | (1) |
| 4. | \_\_\_\_\_\_\_\_\_ operator is used to test whether an operation causes an arithmetic overflow. | (1) |
| 5. | Which command is used to see the assembly file of a C# program? | (1) |
| 6. | The metadata about the assembly is called as \_\_\_\_\_\_\_\_\_\_\_\_\_ | (1) |
| 7. | What are the two main ways to ensure that database connections and the like are released after use? | (1) |
| 8. | Give the purpose of SqlDataAdapter class. | (1) |
| 9. | Which framework of ASP.NET supports partial - page postback operations? | (1) |
| 10. | What is the extension of user control file? | (1) |

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| **PART B(5 X 3= 15 MARKS)** | | |
| 11 | What are the two ways to achieve pass by reference in C#? Differentiate both with suitable example. | (3) |
| 12 | What is the problem with String and how it is overcome by StringBuilder? | (3) |
| 13 | Differentiate private, shared and satellite Assembly. | (3) |
| 14 | What are the Benefits of Dock and Anchor Property in windows application? | (3) |
| 15 | Differentiate user control and custom control. | (3) |

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| **PART C(5 X 15= 75 MARKS)** | | | |
| 16. | a. | Write a C# program to illustrate inheritance including abstract, virtual and override method. | (12) |
| b. | How will you compensate the multiple inheritance concepts in C#? | (3) |
| (OR) | | | |
| 17. | a. | Demonstrate the control statements in C# with suitable example. | (15) |
| 18. | a. | Demonstrate overloading the operators +, \*, /, - , ==, implicit and explicit in the context of complex number. | (15) |
| (OR) | | | |
| 19. | a. | What are the steps involved in creating delegates? Write a C# program to create a delegate which represents any four mathematical functions and all the functions to be done on a single object call. | (15) |
| 20. | a. | Create a custom attribute for getting the *ProgramName* and *VersionNumber*. Use the Attribute in a Program and pass the value to the Attribute You has created in C#. | (15) |
| (OR) | | | |
| 21. | a. | How will you handle exception in C#? Explain with suitable example. | (15) |
| 22. | a. | Create a windows form application using ADO.NET for Students Information System. Insert only the marks which are greater than or equal to zero and less than or equal to hundred and permit updations only for the register numbers greater than 100. | (15) |
| (OR) | | | |
| 23. | a. | Explain about Validation Web Server Controls. Give example to validate password textbox and Confirm password textbox using CompareValidator. | (15) |
| 24. | a. | Explain about the master pages in ASP.NET. | (8) |
| b. | Using necessary controls exemplify the FlowLayoutPanel and TableLayoutPanel. | (7) |
| (OR) | | | |
| 25. | a. | Using ASP.NET and ADO.NET create an application to insert and delete a particular row form the database and to dynamically update the GridView from the table. | (15) |

ALL THE BEST