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Question Paper Code: 99222

B.E./B.Tech. DEGREE EXAMINATION, NOV 2023

Elective

Computer Science and Engineering

19UCS922- C# and .NET

(Régulations 2019)

Duration: Three hours

Maximum: 100 Marks

Answer ALL Questions

PART A - (5 x 1 = 5 Marks)

1. The runtime layer is properly referred to as _____ CO1- U
(a) The Common Language Runtime (b) The Common Specific System
(c) The Common Language Specification (d) None of the above
2. Which procedure among the following should be used to implement a 'Has a' or a 'Kind of' relationship between two entities? CO2- U
(a) Polymorphism (b) Inheritance (c) Templates (d) All of the mentioned
3. The ... method in the StreamWriter class clears all buffers for the current writer and causes any buffered data to be written to the underlying stream. CO3- U
(a) Flush() (b) Clear() (c) Flush Buffer() (d) Clear Buffer()
4. If you are using the DataSet and you have to display the data in sorted order what will you do? CO1- U
(a) Use Sort method of DataTable
(b) Use Sort method of DataSet
(c) Use DataView object with each sort
(d) Use datapaging and sort the data.
5. The file extension an ASP.NET web form is _____ CO5- U
(a) .docx (b) .aspx (c) .jpeg (d) None of the above

PART – B (5 x 3= 15 Marks)

6. What do you know about JIT? CO1- U
7. What is Early Binding and Late Binding? CO2- U

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| 8. | What is object serialization? | CO3- U |
| 9. | What is the difference between Typed and Untyped Dataset? | CO4- Ana |
| 10. | What is Master Page? What are the relationship between the Master Page and the Content Page? | CO5- U |

PART – C (5 x 16= 80 Marks)

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| 11. | (a) Explain the .NET framework work and the major components of the .NET framework. | CO1- U | (16) |
| | Or | | |
| | (b) Explain the Role and Benefits of CIL | CO1- U | (16) |
| 12. | (a) Explain in details about the types of inheritance with suitable examples. | CO2- U | (16) |
| | Or | | |
| | (b) What is Polymorphism? Explain the types of polymorphism with suitable examples. | CO2- U | (16) |
| 13. | (a) Explain the list of modes and classes of file operation in C# with suitable examples. | CO3- U | (16) |
| | Or | | |
| | (b) Explain the type of serialization and how to serialize the object in C#? | CO3- U | (16) |
| 14. | (a) Explain in detail the exception handling procedure in ADO.NET with example | CO4- Ana | (16) |
| | Or | | |
| | (b) List the validating controls supported by ADO.NET. Explain each in detail with example. | CO4- Ana | (16) |
| 15. | (a) Develop a simple registration form for event registration using ASP.NET Web forms. | CO5- App | (16) |
| | Or | | |
| | (b) Create a simple calculator web service using ASP.NET. | CO5- App | (16) |