C

B.E./B.Tech. DEGREE EXAMINATION, NOV 2024

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   CO2- U
   a' or a 'Kind of' relationship between two entities?

   (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   CO3- U
   and causes any buffered data to be written to the underlying stream.
   (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   CO1- U
   what will you do?

   (a) Use Sort method of DataTable

   (b) Use Sort method of DataSet

   (c) Use DataViev 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

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 CO5- U the Content Page?

PART – C (5 x 16= 80 Marks)

11. (a) Explain the .NET framework work and the major components of CO1- U (16) the .NET framework.

Or

(b) Explain the Role and Benefits of CIL CO1- U (16)

12. (a) Explain in details about the types of inheritance with suitable CO2- U (16) examples.

Or

(b) What is Polymorphism? Explain the types of polymorphism with CO2- U (16) suitable examples.

13. (a) Explain the list of modes and classes of file operation in C# with CO3- U (16) suitable examples.

Or

(b) Explain the type of serialization and how to serialize the object in CO3- U (16) C#?

14. (a) Explain in detail the exception handling procedure in ADO.NET CO4- Ana (16) with example

Or

(b) List the validating controls supported by ADO.NET. Explain each CO4- Ana (16) in detail with example.

15. (a) Develop a simple registration form for event registration using CO5- App (16) ASP.NET Web forms.

Or

(b) Create a simple calculator web service using ASP.NET. CO5- App (16)

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