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**Question Paper Code: 99222**

B.E./B.Tech. DEGREE EXAMINATION, NOV 2022

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 .NET ... is a collection of reusable types that are integrated with the CLR. CO1- U  
(a) Common Language Specifications (CLS) (b) Common Language Runtime (CLR)  
(c) Common Type System (CTS) (d) Framework Class Library (FCL)
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

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)

11. (a) Write a short note on the following Types of CTS CO1- U (16)
- (i) Reference Type
  - (ii) Interface Type
  - (iii) Structure Type
  - (iv) Interfaces
- Or
- (b) Explain the Role and Benefits of CIL CO1- U (16)
12. (a) Write a C# Program to display cost of a rectangle plot using inheritance. CO2- U (16)
- Or
- (b) Write a C# Program Demonstrates the concept of Overriding. 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) Explain how data sets are passed as parameter and return from a web service. Give an example code. CO5- U (16)
- Or
- (b) Create a simple calculator web service using ASP.NET. CO5- U (16)