CBCS SCHEME

USN

17CS564

Fifth Semester B.E. Degree Examination, Jan./Feb. 2023
Dot Net Framework for Application Development

Time: 3 hrs. Max. Marks: 100

Note: Answer any FIVE full questions, choosing ONE full question from each module.

Module-1

1 a. Define Namespace in C#. What are its uses? Name any 3 Name namespace with their description. **(08 Marks)**

b. Define Exception. Explain with an example. **(06 Marks)**

c. Write a C# program to generate Fibonacci series upto n. Read 'n' from console device. **(06 Marks)**

OR

2 a. Explain how to use while, for and do statement to execute code repeatedly with an example. **(09 Marks)**

b. Define Method. List and explain different method parameters. **(05 Marks)**

c. Write a C# program that accept userName, City and age. Display the same using methods. **(06 Marks)**

Module-2

3 a. Define constructor. Write a C# program to demonstrate constructor overloading. **(08 Marks)**

b. Explain partial class with an example. **(06 Marks)**

c. Explain boxing and unboxing with an example. **(06 Marks)**

OR

4 a. Differentiate between Class and Structure. **(06 Marks)**

b. Define Jagged array. Explain with an example how Jagged arrays are declared. **(06 Marks)**

c. Write a C# program to compute row sum and column sum of an array. **(08 Marks)**

Module-3

5 a. Define method overloading. Explain different forms of override a method with an example. **(08 Marks)**

b. Define Inheritance. Mention different forms of inheritance with syntax. Explain any one with an example. **(12 Marks)**

OR

6 a. Define garbage collection. Give the syntax of destructor. List out steps taken by the garbage collector to destroy objects. **(08 Marks)**

b. Write a note on Abstract class and Abstract method. **(06 Marks)**

c. Write the restriction for Interface in C#. **(06 Marks)**

Module-4

7 a. Define Property. How are they declared and used? Explain with an example. **(08 Marks)**

b. Define Generic class. Mention features of Generic classes. Write C# program for swapping values using generic method. **(09 Marks)**

c. Compare indexer and arrays. **(03 Marks)**

OR

8 a. Explain the stack <T> collection class with an example. **(08 Marks)**
b. Define Indexer. Explain how indexers used with interface. **(08 Marks)**
c. Differentiate between Arrays and Collections. **(04 Marks)**

Module-5

9 a. Define Iterator. Explain how enumerator is implemented using an Iterator. **(08 Marks)**
b. Write a note on Delegate. **(04 Marks)**
c. Explain Language Integrator Query for selecting and filtering data. **(08 Marks)**

OR

10 a. Define Event. Explain how Event is subscribed and unsubscribed with an example. **(10 Marks)**
b. Explain operator overloading and their constraints with a programming example. **(10 Marks)**

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