CBCS SCHEME

USN ☐☐☐☐☐☐☐☐☐☐ **15CS564**

Fifth Semester B.E. Degree Examination, July/August 2022
Dot NET Framework for Application Development

Time: 3 hrs.   Max. Marks: 80

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

Module-1

1   a. What is Namespace? How namespace is used to solve name – clashing problem. Explain with example. **(06 Marks)**
   b. Explain the following with example : i) Statements ii) Identifiers. **(04 Marks)**
   c. List out the rules to adhere with switch statement .write a C# program that switches on string. **(06 Marks)**

OR

2   a. Define scope of a variable. Explain the following with an example :
i) Local scope ii) Class scope. **(08 Marks)**
   b. Write a C# program to add two numbers using try and catch for the following exceptions.
i) Format exception ii) overflow exception . **(08 Marks)**

Module-2

3   a. Explain overloading methods. Write a C# program for swapping of 2 numbers using overloading concept. **(08 Marks)**
   b. Explain how arguments are passed as method parameters by using the following :
i) ref keyword ii) out keyword. **(08 Marks)**

OR

4   a. Write a C# program to demonstrate boxing and unboxing. **(04 Marks)**
   b. Discuss the different ways to copy on array to another array. Give example. **(06 Marks)**
   c. Define Jagged array. Explain how waste memory can be overcome with jagged array. Give example. **(06 Marks)**

Module-3

5   a. Define Params Array. List out the restrictions on params array with suitable example. **(08 Marks)**
   b. What is the need for virtual function? Explain with an example. **(08 Marks)**

OR

6   a. Write a C# program to demonstrate multiple interfaces. **(06 Marks)**
   b. Define garbage collection. Write a C# program to demonstrate garbage collector. **(06 Marks)**
   c. Explain in detail dispose method Idisposable interface. **(04 Marks)**

Module-4

7   a. What are properties? Write a C# program to demonstrate properties on considering class name as Customer and fields as int _Custid; bool _stauts; String _Cname; double _Balance. **(08 Marks)**
   b. Define Indexers. Write a C# program to demonstrate indexer on considering class name as Employee and field as int Eno, double salary, String Ename, String Job, String Dname, String Location. **(08 Marks)**

OR

8   a.   Define generics. Write a C# program to compare two parameters using generics method.

(08 Marks)

b.   List out different between arrays and collections.   (04 Marks)

c.   List out important design consequences of the Dictionary < Tkey, Tvalue > class.   (04 Marks)

Module-5

9   a.   What is an iterator? Write a C# program to implement an enumerator by using an iterator.

(05 Marks)

b.   What is a delegate? Write a C# program to add two number using delegate.   (06 Marks)

c.   What is an event? Write a C# program to subscribe unsubscribe and raise an event.

(05 Marks)

OR

10   a.   What is LINQ? Write a C# program that illustrate selecting, filtering and ordering data using LINQ.   (08 Marks)

b.   List out the C# program to overload constraints.   (03 Marks)

c.   Write a C# program to overload '+' operator to add 2 instances of a class.   (05 Marks)

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