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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)



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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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