CBCS SCHEME

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15CS564

Fifth Semester B.E. Degree Examination, Aug./Sept. 2020
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. Implement general structure of C# program with suitable example. **(06 Marks)**

b. Using expression bodied method, write a C# program to read two arguments as parameter and return output values as addition, substraction, product and division as output parameter from a method. **(06 Marks)**

c. Mention the difference between local scope and class scope with example. **(04 Marks)**

OR

2 a. Discuss the code syntax for the following :
i) try/catch block
ii) checked/unchecked
iii) throw
iv) finally. **(08 Marks)**

b. Write a C# program to determine the largest of three numbers. **(04 Marks)**

c. List the different types of operators in C#. Explain any one in brief. **(04 Marks)**

Module-2

3 a. What is static method? With an example, illustrate how to declare and call a static method. **(04 Marks)**

b. Give differences between value types and reference types. **(06 Marks)**

c. Explain the use of ref and out parameter with code snippet. **(06 Marks)**

OR

4 a. Explain different ways of copying an array from system. Array class. **(06 Marks)**

b. Differentiate between structure and class. **(05 Marks)**

c. Write a C# program to create an array of person with name and age as fields and display the youngest person in the family by taking age as criteria. **(05 Marks)**

Module-3

5 a. Discuss params array and params objects. **(04 Marks)**

b. Illustrate the concept of method overriding with an example. **(06 Marks)**

c. What is an interface? Describe explicitly implementing an interface with an example. **(06 Marks)**

OR

6 a. Differentiate between abstract class and sealed class. **(05 Marks)**

b. Explain how garbage collector works. **(05 Marks)**

c. Implement the using statement and the IDisposable interface, with an example. **(06 Marks)**

Module-4

7 a. Demonstrate how to declare read only property and write only property for a structure or class. **(06 Marks)**

b. Compare Indexers and arrays. **(04 Marks)**

c. Define indexers in interfaces with an example. **(06 Marks)**

OR

8 a. Examine the issues with object type and the purpose of generics. **(08 Marks)**

b. Explain Queue < T > collection class with an example. **(08 Marks)**

Module-5

9 a. Implement an enumerator by using a simple iterator. **(08 Marks)**

b. What is a delegate? Create an instance of a delegate initialized with a single specific method. **(08 Marks)**

OR

10 a. Explain Ordering, Grouping and aggregating data using LINQ expression. **(08 Marks)**

b. What is operator overloading? Write a program to overload binary operator '+' to add two complex numbers. **(08 Marks)**

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