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)

* * * * *