USN

Seventh Semester B.E. Degree Examination, June/July 2017 C# Programming and .NET

Time: 3 hrs.

Max. Marks:100

Note: Answer FIVE full questions, selecting at least TWO questions from each part.

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PART - A			
1	a.b.c.	What is an assembly? Explain each component of an assembly. Differentiate betwand multifile assembly. Write a note on .NET namespace. Explain the working of CLR with an neat diagram.	ween single (08 Marks) (04 Marks) (08 Marks)
2	a. b. c.	Define C# preprocessor directive. Explain any three directive. Explain how csc.exe command is used to built C# application on .NET. Explain flags with appropriate examples. Explain the following with respect to C# program in command prompt. i) Generating Bug report ii) Compiling multiple source file.	(08 Marks) in any five (06 Marks) (06 Marks)
3	a.b.c.	Explain the following types with an example with reference to C#. i) foreaction iii) params iv) verbatim v) enum. Explain the Anatomy of simple C# program and variations in main method. Explain boxing and unboxing with an example.	ch ii) ref (10 Marks) (06 Marks) (04 Marks)
4	a.	Explain how encapsulation is enforced in C# with a small program for each method	od. (08 Marks)
	b. c.	Explain the two different roles of 'this' keyword with an example. Explain virtual and override keywords.	(06 Marks) (06 Marks)
5	a. b.	PART – B List and explain with code, core members of System. Exception type. With an example, explain forcing a Garbage collection and the need for forcin collection. Write a C# application to illustrate handling multiple exceptions.	(10 Marks) g Garbage (05 Marks) (05 Marks)
6	a. b. c.	Explain the three different way of obtaining interface reference. Explain the following interfaces and its Role i) I convertible ii) I comparable. Explain how to achieve shallow and deep copy in C#.	(09 Marks) (06 Marks) (05 Marks)
7	a. b. c.	What are the main advantages of C# events? What are delegates? Explain the members of System.Multicast delegates. Give program to implement multicasting. Write a program in C# to sort and reverse an array of 5 elements using sort () and methods.	(10 Marks)
8	a. b. c. d.	Write short notes on: Cross language inheritance Object Generations Physical and logical view and assembly Building a multifile assembly.	(20 Marks)

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