53 (CS 814) CANF

2018

AND .NET FRAMEWORK

Paper: CS 814

Full Marks: 100

Time: Three hours

full marks for the questions. figures in the margin indicate

Answer any five questions.

- (a) Briefly describe the following terms: 2×5=10
- (i) .NET technology
- (ii) Namespace
- (iii) Class
- (iv) Private
- (v) Array List.

- (b) Differentiate between the followings: 2×5=10
- (i) OLE and COM technology
- (ii) String and StringBuilder class
- (iii) Value type and Reference type Variables
- (iv) Public and Protected
- (v) Compile time and Runtime polymorphism.
- (a) What is CLR? What are the functions of CLR?
- (b) Why C# is called type-safe? Mention.
- (c) Define output parameter. Give a suitable example showing the use of an output parameter. 3+5=8
- (a) What is a Copy Constructor? Give a suitable example showing the use of a copy constructor.

- (b) Write a program to insert 25 cities using a ArrayList() class. Also print the cities in ascending order. 4+4=8
- (c) Mention four benefits of .NET approach.
- (a) Why constructors are used in a program? Give a suitable example showing the use of parameterized constructors.

 2+5=7
- (b) What is Param? How Param can be used in a program? Show with an example.
- (c) What is a Structure? How a structure is different from a class? Justify.

2+4=

- (a) Write a program that reads a line of text containing three words and then replace all the blank spaces with an underscore (_).
- (b) What do you mean by a virtual method? Give an example of implementation of a virtual method in a program.

 3+6=9

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- (c) What is a Static Constructor? How is constructor? it different from a non-static 2+3=5
- 6. (a) Define a Time Class containing the following members:
- and Hours Two integer data members Minutes
- Two overloaded constructors
- data members One method to display the class

the method. and minutes. Write a program to verify the operation of the constructors and of minutes and convert it into hours parameter representing total number the other constructor takes one integer values to the two data members and integer values as parameters to assign One of the constructors takes two

- (6) using? How two strings can be concatenated 4×2=8
- + operator
- (ii) Append method.

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(a) Write short notes on: (any four) Switch () Statement

4×5=20

- 6 .NET Framwork
- (0) String
- (d) Boxing and Unboxing
- (e) Alias
- Object Oriented Programming.