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3 (CS 814) CANF

MATRIAL INSTITU

2019

C#AND.NET FRAMEWORK

Paper: CS 814

Full Marks: 100

Time: Three hours

The figures in the margin indicate full marks for the questions.

Answer any five questions.

- 1. (a) Define the following terms briefly: $2\times5=10$
 - (i) .NET Technology
 - (ii) Method
 - (iii) Public
 - (iv) Class
 - (v) Inheritance.

Contd.

- *(b)* Differentiate between: 2×5=10
- Private and Protected
- (ii) Boxing and Unboxing
- (iii) String and String Builder Class
- (u) Value type and Reference type
- (v) .OLE and .COM Technology
- 2 (a) Why C# is sharper than C++? Explain.
- *(b)* What is an alias? What is its benefits? 2+2 GMAY #
- 0 example showing the use of an output Define output parameter. Giveran parameter.
- (d) Write a program to insert 20 cities using an ArrayList() class.
- ω (a) Why C# is called type safe?

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6) Mention four functions performed Common Language Runtime (CLR). 4 by

> 53E(c) 0=0×8 showing the use of a Constructor. program? Give a suitable program Why a Constructor is needed in a

2+4=6

- (d) written as GINRST. example, the word STRING should be and rewrite it in alphabetical order. For Write a program that will read a string
- 4. (a) program in C# showing the use of a What is Copy Constructor? Write a copy constructor. 3+6=9
- *(b)* implemented? What is virtual method? How can it be 3+3=6
- 0 underscore (_). replace all the blank spaces with an text containing three words and then Write a program that reads a line of

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- 5. (a) What is Overloaded Constructor? Give a suitable example. 2+4=6
- 6 If present, the method will return true. Write a method to check whether an element is present in an array or not

0

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- 0 string objects and concatenate them "Central Government" into two separate into a new string using Write a program that reads the name 3×2=6
- + operator

IN IN STEW OIL

- Append method.
- 9 (a) There is containing the following information: മ class name "TIME" 35.5W (p) 12.+
- Two interger data members minutes and hours
- members
 One of the constructors takes two integer One method to display the class data members

the above. and minutes. Write a program to implement one integer parameter representing total parameters to assign values to two data number of minutes and convert it into hours members and the other constructor takes

- (b) Mention four benefits of .NET approach.
- 0 Write a program using the Array Class to sort the names of 15 countries. 4

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- 7. Write short notes on: (any four) 5×4=20
- Param
- *(b)* Virtual method
- 0 Runtime polymorphism
- (d) Switch statement
- (e) Static constructor
- S Break statement.



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