U.S.N					

Max. Marks: 100

10

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10

10

P.E.S. College of Engineering, Mandya - 571 401

(An Autonomous Institution affiliated to VTU, Belagavi)

Fifth Semester, Master of Computer Applications (MCA) Semester End Examination; Dec - 2017/Jan - 2018 Programming using C# & .NET

Time: 3 hrs

Note: Answer FIVE full questions, selecting ONE full question from each unit. UNIT - I 1 a. Explain the features of .NET framework. 10 b. Explain the following: 10 i) CLR ii) .NET class library iii) Metadata and assemblies. 2 a. List out the differences between value type and reference type. 5 b. With the help of a general syntax, explain the working of switch statement. Give suitable 5 example. c. With the help of a general syntax, explain the working of for-each loop structure. Give 5 suitable example. d. Explain different data types used in C#. 5 UNIT - II 5 3 a. Write the purpose of any five namespaces. b. Explain different types of method parameters modifiers. 10 c. Explain the static property. 5 4 a. Write a C# program to count the number which is divisible by 5 and 8 given in a matrix. 10 b. With the help of a general syntax, explain structs. 5 c. What is the need of constructors? Illustrate parameterized constructors. 5 **UNIT - III** 5 a. With the help of a suitable example, explain accessors and mutators. 10 b. With the help of a suitable example, explain sealed class and sealed method. 10 6 a. With the help of a suitable example, explain overloading and overriding. 10 b. Explain the following with simple examples: 10 i) throw iii) try-finally. ii) try-catch **UNIT-IV**

UNIT - V

iv) CheckBox.

7 a. What is meant by events? Design a simple event driven GUI.

b. Write a menu-driven application to change text font and color.

b. Explain the steps required to retrive the data from SQL server.

10 a. Explain the steps required to build the Webtime application.

iii) Button

b. Explain the following components:

ii) TextBox

8 a. Write a note on control properties and layout.

9 a. What is DataSet? Explain its components.

b. Write a note on cookies and session.

i) Label