U.S.N

P.E.S. College of Engineering, Mandya - 571 401
(An Autonomous Institution affiliated to VTU, Belgaum)
Fifth Semester, Master of Computer Applications (MCA)
Semester End Examination; Dec - 2016/Jan - 2017
Programming Using C# and .Net

Time: 3 hrs *Max. Marks: 100*

*Note: Answer **FIVE** full questions, selecting **ONE** full question from each unit.*

UNIT - I

1 a.	Write and explain architecture of **.**Net framework.	10
b.	Explain the role of metadata and assemblies in **.**Net framework.	10
2 a.	With code example explain boxing and un boxing concepts.	10
b.	Explain *??* Operator, *is* and *as* Operators with code example.	10

UNIT - II

3 a.	Write a program to illustrate the use of different properties in C#.	10
b.	List the types of parameters passed to a method in C# and explain any two types with example.	10
4 a.	With suitable example explain static classes and static members.	10
b.	Explain with code example partial classes and methods in C#.	10

UNIT - III

5 a.	Explain compile time polymorphism and run time polymorphism with code example.	10
b.	What is the need of sealed classes and sealed methods?	10
6 a.	Explain the delegate type in C# with a programming example.	10
b.	Define the following keywords with program example, i) *try* ii) *throw* iii) *catch* iv) *finally*.	10

UNIT - IV

7 a.	Write a note on how to handle mouse event in C# Program.	10
b.	Explain Label, TextBox and Button controls usage in windows forms.	10
8 a.	Demonstrate the creation of Multiple Document Interface windows forms in C#.	10
b.	Explain the usage of ComboBox control in C#.	10

UNIT - V

9 a.	Write and explain Architecture of ADO**.**net.	10
b.	In detail explain Dataset of ADO**.**net.	10
10 a.	Explain Validation Control of web application with code example.	10
b.	Write steps to retrieve the data from SQL server.	10

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