



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 -2015

Enterprise Architecture - II

Time: 3 hrs

Max. Marks: 100

Note: Answer any **FIVE** full questions.

- 1 a. Explain the limitations and complexities bound within the technologies prior to .NET. Explain how .NET attempts to simplify the same. 10
- b. Explain .NET execution lifecycle with diagram. 5
- c. What is the role of .NET type metadata? Give an example. 5
- 2 a. What is response file in C#? Why it is used? Create a response file named test application rsp and show how it is used to build application? 4
- b. Explain any three C# processor directives. 6
- c. Explain various output options available with C# compiler. 10
- 3 a. Explain the core members of the System String class with an example. 10
- b. Explain the following terms, with reference to C# with code snippets. 10
(i) for each (ii) params (iii) Verbatim string.
- 4 a. What is inheritance? How it is implemented in C#? Explain the same with code snippets. 10
- b. What are the two different role of 'this' Keyword, explain with example. 10
- 5 a. Mention the rules of .Net memory management and explain in detail GC.Collect () and Finalize (). 10
- b. What are bugs, errors and exception? Explain with an example. 3
- c. Name the 2 descendent classes of System Exception class and define their roles. 4
- d. List and explain the core members of the System Exception type. 3
- 6 a. Define an interface. Explain how it is created in C# with suitable example. 5
- b. Write an explanatory note on ICloneable interface, with examples. 7
- c. List the interfaces of System collections namespace and briefly explain their roles. 8
- 7 a. What are delegates in C#? Differentiate between the synchronous and asynchronous delegates with example. 10
- b. Explain the members of System Multicast delegates. Give a small program to implement multicasting? 10
- 8 a. Explain the support for cross-language inheritance with examples. 6
- b. Compare private and shared assemblies. 4
- c. Describe the two conceptual views of a .NET assembly with neat diagram. 10