

MAHE, MANIPAL
SCHOOL OF INFORMATION SCIENCES

THIRD SEMESTER M.Sc. Tech (EMBEDDED SYSTEMS & INSTRUMENTATION) DEGREE
EXAMINATION (Make-up) – JANUARY 2018

SUBJECT: ESI 615.3 (Elective 1) – DOT NET TECHNOLOGIES

Tuesday, January 9, 2018

Time: 10.00 – 13.00 Hrs.

Max. Marks: 100

✍ Answer ALL the questions

1. Explain the advantages of .NET over other platforms.
(10 Marks)
2. With a neat diagram, explain the workflow that takes place between the source code, a given .NET compiler, and the .NET execution engine.
(10 Marks)
3. Explain Classes and Objects in C#.
(10 Marks)
4. Explain the following keywords with respect to methods in C# with an example each
a. out b) ref c) param
(3+3+4 Marks)
5. What is inheritance? Explain it with an example in C#.
(10 Marks)
6. Write a short note on: a) Method overloading b) Method overriding used in C#.
(10 Marks)
7. Define an event. What are the properties of events? Show how events are handled.
(10 Marks)
8. What are Class Properties in C#? How can you make a member variable read-only and write only? Explain with an example.
(10 Marks)
9. Write short note on Connected and Disconnected Layer of ADO.Net.
(10 Marks)
10. Write a C# code to open a connection to a database and then perform the following actions
a) Insert b) Select c) Delete d) Update
(10 Marks)