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Seventh Semester B.E. Degree Examination, Dec.2018/Jan.2019
C# Programming and •NET

Time: 3 hrs.

Max. Marks:100

**Note: Answer FIVE full questions, selecting
atleast TWO questions from each part.**

PART – A

- 1 a. What are the building blocks of •Net platform? Give the relationship between •Net runtime layer and base class library. (08 Marks)
- b. Explain the role of assembly manifest. (04 Marks)
- c. Explain CTS, briefly explain any three types defined by the CTS, with example. (08 Marks)
- 2 a. Explain output centric options of the C# complier. (05 Marks)
- b. Explain C# preprocessor directives, with examples. (06 Marks)
- c. What is command line debugger? Write a C# program to display the following information using system environment class. (09 Marks)
 - i) Current directory of application
 - ii) Operating system version
 - iii) Logical drives
 - iv) Host name
 - v) •Net version.
- 3 a. Explain the following terms, with an example, with reference to C# (10 Marks)
 - i) for each ii) ref iii) params iv) out v) do/while loop.
- b. Explain boxing and unboxing with examples. (06 Marks)
- c. Explain core members of system object. (04 Marks)
- 4 a. Explain the three pillars of object oriented programming in C# with an example. (12 Marks)
- b. Explain with examples, static properties in C#. (04 Marks)
- c. Write a note on abstract classes. (04 Marks)

PART – B

- 5 a. Explain core members of system exception type. (08 Marks)
- b. What is meant by object life time? Explain the garbage collection optimization process in C#. (08 Marks)
- c. Write C# application to illustrate multiple exceptions. (04 Marks)
- 6 a. What is an interface? Explain the three methods to obtain interface references. (08 Marks)
- b. How to build cloneable and comparable objects in C#. (06 Marks)
- c. With an example explain any four inter faces of system collection. (06 Marks)
- 7 a. With an example, discuss the advanced keywords of C# : checked, unchecked unsafe. Stack alloc and size of. (10 Marks)
- b. What are delegates? Explain the members of system multicast delegates : write a sample program to implement delegate. (10 Marks)
- 8 a. Explain the C# support for cross language inheritance, with example. (06 Marks)
- b. Write a short note on process a multifiile assembly. (06 Marks)
- c. With an example. Explain the role of delayed signing. (08 Marks)

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Important Note : 1. On completing your answers, compulsorily draw diagonal cross lines on the remaining blank pages.
 2. Any revealing of identification, appeal to evaluator and /or equations written eg, 42+8 = 50, will be treated as malpractice.