Student Bounty Com **Code: AC73/AT73 AMIETE - CS/IT (NEW SCHEME)**

Subject: C# AND .NET

Time: 3 Hours

DECEMBER 2010

Max. Marks: 100

NOTE: There are 9 Questions in all.

- Question 1 is compulsory and carries 20 marks. Answer to Q.1 must be written in the space provided for it in the answer book supplied and nowhere else.
- The answer sheet for the Q.1 will be collected by the invigilator after half an hour of the commencement of the examination.
- Out of the remaining EIGHT Questions, answer any FIVE Questions. Each question carries 16 marks.
- Any required data not explicitly given, may be suitably assumed and stated.

0.1 Choose the correct or the best alternative in the following: (2×10)

- a. Polymorphism in C# can be achieved by:
 - (A) method overloading **(B)** operator overloading.
 - (C) class overloading (D) both A and B
- b. An example of a user defined integer type which provides a way for attaching names to numbers:
 - (A) Class type **(B)** Array type
 - (C) Enumeration **(D)** None of the above.
- c. Which of the following need not be overloaded:
 - (A) Method. **(B)** Constructors.
 - (C) Destructors. **(D)** None of the above
- d. Delegates in C# are used for the following purpose:
 - (A) Callbacks **(B)** Event Handling
 - (C) Overloading (D) Both A and B
- e. Delegates are of
 - (A) Value type **(B)** Reference Type
 - (C) Both A and B (D) None
- f. An Exception is caused by:
 - (B) Run time Error (A) Syntax error
 - (C) Both A and B (D) None.

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throwing generic exceptions.

Q.2

Q.3

0.4

Q.5

Q.6

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(10)

(6)

b. What do you understand by object lifetime? Explain.

a. What do you understand by errors, bugs and exceptions? Give the important members of the system exception class. Illustrate the use of this class in

- Student Bounty.com a. Distinguish between shallow and deep copy, as applied to cloning. How would **Q.7** you implement cloning for a custom class using ICloneable interface.
 - b. Explain the importance of an interface in C#. With an example explain how an interface can be implemented in C#.
- **Q.8** With the help of suitable example explain what delegates are in C#. **(8)**
 - b. What do you understand by asynchronous delegates in C#. Explain with an example.
- **Q.9** a. Explain with the help of a diagram the logical view of an assembly in the .NET framework.
 - b. Write and discuss the steps involved in building a shared assembly under .NET environment.