

GUJARAT UNIVERSITY

B.E. Sem. VII (C.E.) Examination

Special Trends in Internet Programming (EP-II)

Thursday, 3rd January, 2008]

**[Time : 3 Hours
Max. Marks : 100**

- Instructions :** (1) Attempt all questions.
(2) Answer to the two sections must be written in separate answer books.
(3) Figures to the right indicate full marks.
(4) Make suitable assumptions wherever required.

SECTION I

- 1 [A] Answer following questions. (Any five) 10
1. Give the usage of following operators
 - a. is
 - b. as
 2. What is the use following switches with respect to csc compiler.
 - a. /t
 - b. /r
 3. Explain the use of sealed keyword.
 4. What is constructor? Give names of different types of constructors in C#.
 - 5 Give differences between private and protected?
 - 6 What is multi dimensional array? How to create it in C#?
- [B] Explain .NET framework with suitable diagram. 8
- 2 [A] What is type casting? Differentiate implicit and explicit type casting. Also explain user defined type casting with example. 8
- [B] What is exception? Explain exception handling mechanism in C#. 8
- OR**
- [B] Differentiate checked and un-checked exceptions with suitable example. 8
- 3 Write notes on following (Any four) 16
1. C# preprocessors
 2. Namespace
 3. Reflection
 4. Pointers in C# (Unsafe code)
 5. Operator overloading

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SECTION : II

- 4 [A] What is thread? How to create multiple threads in C#? 6
- [B] Explain some important classes of System.IO namespace. 6
- [C] Explain usage of following methods of command object of ADO .NET 6
- a. ExecuteReader
 - b. ExecuteNonQuery
 - c. ExecuteScaler

- 5 [A] Write a program which reads data from one text file and writes the same data into other file. 8

OR

- [A] Write a program which illustrates the concept of serialization. 8
- [B] Attempt following (any two) 8
- 1 Write a note on Assemblies.
 - 2 Explain disconnected data access model of ADO .NET
 - 3 Write a note on web services.
- 6 [A] Write a C# program which creates a login form and validates entered user information with database. 8
- [B] Give major differences between ASP and ASP .NET. 8