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53 (IT 605) CNFW

2014

C # AND NET FRAMEWORK

Paper : IT 605

Full Marks : 100

Time : Three hours

The figures in the margin indicate full marks for the questions.

Answer any five questions out of seven.

1. (a) State the scope of the following variables. Explain with examples 10
 - (i) Local variables
 - (ii) Field variables
 - (iii) Method parameters.
- (b) How does the CLR implement a C# program? 10
2. (a) Write a program that takes a string from the command line input and takes another input of a character from the user and searches if the character exists in the string. If yes, count the number of times the character occurred in the string. 10

Contd.

- (b) What is “fall through” in switch statement ?
How it is achieved in C# ? 10
3. (a) What is a standard numeric format ? Explain
with examples. 10
- (b) Explain different Data Provider in
ADO.NET. 10
4. (a) Explain the looping constructs in C# with
syntax and examples. 10
- (b) Explain in details ADO.NET connected
model. 10
5. (a) What happens when an exception is caused
in an inner try block of a nested try block ?
10
- (b) What are design patterns ? Briefly explain
the three key design patterns supported
in .NET. 10
6. (a) What is synchronization ? Illustrate with an
example implementation of synchronization
in C#. 10

(b) Create a class called Date that includes data members day, month and year and methods that could implement the following tasks :

10

- Read a date from keyboard
- Display a date
- Increment a date by one day
- Compare two dates to see which one is greater.

7. Write short notes on : 4×5=20

- (a) Boxing and Unboxing
- (b) Command line arguments
- (c) Assemblies
- (d) Marshaling.