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Seat No. : \_\_\_\_\_

# **XX-128**

#### April-2013

### Five Years M.Sc. (CA & IT) Integrated (K.S.)

# T.Y. M.Sc.

# **305 : Network and Internet Technologies**

#### Time: 3 Hours]

[Max. Marks : 100

**Instructions :** (1) Attempt **all** questions.

- (2) Make suitable assumptions wherever necessary.
- (3) Figures to the right indicate full marks.

#### 1. Answer the following : (any **four**)

- (1) Write in brief about Java Virtual Machine.
- (2) What is String Buffer ? Explain it with example.
- (3) Differentiate for loop and for-each loop.
- (4) Explain the life cycle of a Thread.
- (5) What is the difference between static (class) method and instance method ?
- 2. Answer the following : (any **four**)
  - (1) Explain the difference between Method Overloading and Overriding.
  - (2) List out any Four methods of String Class this proper example.
  - (3) What is the use of abstract class ?
  - (4) Explain different phases of life cycle of Applet.
  - (5) List out any four components of Swing with its signature.
- 3. (a) Write a code for the following : (any **three**)
  - (1) Write a small program that accepts an argument from the user and cheeks it for the palindrome.

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- (2) Write an exception handling program for ClassNotFoundException thrown if a program cannot find a class it depends at run time.
- (3) Write a program for producer consumer problem (with synchronization).
- (4) Write a Java application to display all records in given database. Field Names are as follows :

Field Name	Field Type
EmpId	Integer
Empname	Varchar
Emp_desig	Varchar
Emp_J_Date	Varchar
Emp_Salary	Numeric

- (b) What is the use of Garage Collection in Java ?
- 4. (a) Write the differences of the following : (any **three**)
  - (1) throw and throws
  - (2) Iterator and Enumerator
  - (3) Comparable and Comparator
  - (4) Array List and Vactor
  - (b) Give the standard steps for connecting and querying database with java applications. Also discuss the important methods of statement class. **8**
- 5. Answer the following : (any **four**)
  - (1) Explain Thread Synchronization in Java.
  - (2) Explain the Wrapper Classes in Java.
  - (3) List out any Four method of math class with example.
  - (4) Which way to use multiple inheritances in Java with proper example.
  - (5) How to create user defined exception in Java ?

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