Roll No.				Total No. of Pages: 02

Total No. of Questions: 09

B.Tech. (IT) (2011 Onwards) (Sem.-5)
PROGRAMMING IN JAVA
Subject Code: BTIT-502

Subject Code: BTIT-502 Paper ID: [A2123]

Time: 3 Hrs. Max. Marks: 60

#### **INSTRUCTION TO CANDIDATES:**

- SECTION-A is COMPULSORY consisting of TEN questions carrying TWO marks each.
- 2. SECTION-B contains FIVE questions carrying FIVE marks each and students has to attempt any FOUR questions.
- 3. SECTION-C contains THREE questions carrying TEN marks each and students has to attempt any TWO questions.

# **SECTION-A**

# Q1 Answer briefly:

- a. Give complete meaning of statement "public static void main(String arg[])".
- b. What is a byte code?
- c. What is the difference between final and finally?
- d. What is dynamic method dispatch?
- e. Define socket.
- f. What is the functionality of using is alive ()?
- g. What are unchecked exceptions?
- h. Why do we need socket programming?
- i. What is difference between thread and a process?
- j. What is use of keyword throws?

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### **SECTION-B**

- 2. Write programs to demonstrate the difference between method overloading and method overriding in Java.
- 3. Briefly explain the procedure of connecting front end application with any database using JDBC.
- Explain about the applet and its life cycle.
- Explain about interfaces. How they are different from the abstract classes?
- Demonstrate the creation and handling of our own exception using any program.

### **SECTION-C**

- 7. Explain different string handling functions and their syntax in java language
- Write a program in java to do the following:
  - orpainer. con a. To swap the two numbers without using the third variable.
  - b. Factorial of a number using recursion.
- Write a short note on:
  - a. Finalize
  - b. I/O streams
  - c. Socket programming
  - d. Multiple catch with single try statement

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