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Department of Library  
 BSR Institute of Technology  
 G.A. 2nd Stage, BANGALORE-7

06CS/IS753

**Seventh Semester B.E. Degree Examination, June 2012**  
**Java and J2EE**

Time: 3 hrs.

Max. Marks:100

**Note: Answer any FIVE full questions, selecting  
 at least TWO questions from each part.**

**PART – A**

- 1 a. List and explain the characteristic features of java language. (08 Marks)  
 b. Briefly discuss about the java development tool kit. (07 Marks)  
 c. Explain the process of building and running java application program. (05 Marks)
- 2 a. Explain the constructor method. How it differs from other member function. (05 Marks)  
 b. What is an applet? Explain different stages in life cycle of an applet. (08 Marks)  
 c. What is a Java exception? Explain the exception handling mechanism with an example. (07 Marks)
- 3 a. Write short notes on modifiers :  
 i) Static  
 ii) Final  
 iii) Abstract  
 iv) Native (10 Marks)  
 b. What is a package? What are the steps involved in creating user defined packages? (10 Marks)
- 4 a. Discuss about swing features. List its components and containers. (10 Marks)  
 b. Develop an applet to create a label, a text field and 4 check boxes with the caption "red", "green", "blue" and "yellow". (10 Marks)

**PART – B**

- 5 a. What are servlets? Explain the different stages in life cycle of a servlet Apl's. (08 Marks)  
 b. What is the role of Tomcat for servlet development? Explain the steps involved in configuring Tomcat web server. (07 Marks)  
 c. Explain the uses of cookies with programs. (05 Marks)
- 6 a. Briefly discuss about the various JDBC driver types. (10 Marks)  
 b. Write a program to display the current contents of a table in the data base. (10 Marks)
- 7 a. Write the differences between JSP and servlets. (03 Marks)  
 b. Explain the Javax servlet packages. (10 Marks)  
 c. Develop a simple servlet program that handles the HTTP request and response. (07 Marks)
- 8 a. Write a program using RMI (Remote Method Innovation) concept such as client and server program in which client sends hello message to server and server replies for the client. (12 Marks)  
 b. Write short notes on :  
 i) Session Java Beans  
 ii) Entity Java Beans. (08 Marks)

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Important Note : 1. On completing your answers, compulsorily draw diagonal cross lines on the remaining blank pages.  
 2. Any revealing of identification, appeal to evaluator and /or equations written eg. 42+8 = 50, will be treated as malpractice.