MCA (Revised)

Term-End Examination

December, 2012

MCS-051 : ADVANCED INTERNET TECHNOLOGIES

Time: 3 hours Maximum Marks: 100 Question No. 1 is compulsory. Attempt any three Note: questions from the rest. 1. Explain the three principal stages in the life (a) 6 of a Java Servlet through a program causes the servlet to print "Here I am!" when invoked. (b) Write a servlet program to print a Welcome 6 Message every time an old user visits the page. What is the difference between JDBC and (c) 4 ODBC? (d) Name the various implicit object used with 3 ISP? (e) Describe briefly any three services offered 6 by EJB. (f) Explain two interfaces associated with EJB 4 class files.

- (g) What is a message-driven bean? How do you implement it? Write a program to illustrate flag an employee as "resigned" whenever the appropriate message is received.
- 2. (a) Write an example program to show how 5 two servlets can share information using the system property list.
 - (b) A database contains an employee table named EMPLOYEE with at least two fields:

 NAME, PHONE-NO and ADDRESS. Write a servlet program to connect to the database and a query that retrieves the names and phone nos. of every employee and display the list to the user.
- 3. (a) (i) Describe the JSP syntax and XML 2 syntax used for scripting elements in JSP.
 - (ii) What is a scriptlet?
 - (iii) Write a scriptlet in a JSP page to print the current data.

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(b) How do you integrate servlet and JSP? 10 Explain with example.

Explain with a block diagram the 10 (a) 4 architecture of an EJB/ client system. What are its advantages. 10 How do you deploy JAR file on JBOSS (b) server? Explain the steps involved with example. 5. Explain the contents of a digital certificate. 10 (a) How does it help in proving security? How do you execute. FORM based (b) 10 authentication? Explain with a sample program.