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MCA (Revised)

Term-End Examination

June, 2013

**MCS-051 : ADVANCED INTERNET
TECHNOLOGIES**

Time : 3 hours

Maximum Marks : 100

Note : Question No. 1 is compulsory. Attempt any three questions from the rest.

1. (a) How does Session Bean differ from the Entity Bean in terms of object sharing, object state and failure recovery ? 5
- (b) Using servlet, JSP, JDBC and XML create a web application for a courier company to provide online help in tracking the delivery status of items. 10
- (c) Write code to use a form to authenticate a client using the session information stored in the HTTP session object in the web server. 10
- (d) Create a database of students enrolled at one of the study center of IGNOU and then write a program using JSP and JDBC to display their names, addresses and the names of the courses in which they are enrolled . 10

- (e) Explain different types of system vulnerabilities. 5
2. (a) What are the advantages of using Java's multiple layer security implementation? 10
- (b) Draw the layered architecture of EJB and explain its components briefly. 10
3. (a) Explain the different types of restrictions on EJB. 5
- (b) What are the advantages of XML over HTML? 5
- (c) Explain the life cycle of servlet. Write a code for demo servlet to explain all the three stages of servlet life cycle. 10
4. (a) What are the custom tags in JSP? Explain their features. What are the three components that make up a tag in library? Explain with the help of an example. 10
- (b) What is message driven bean? Explain different circumstances under which message driven bean can be used. 10
5. (a) Draw a diagram to show security objects dependencies and explain each security object with the help of examples. 10
- (b) What is DTD? Why do we use it with XML documents? Explain the different components of DTD with example. 10
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