05407

MCA (Revised)

Term-End Examination

June, 2012

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) Explain how cookies can be used for session tracking in servlets.   5

    (b) Explain the types of JDBC drivers ; tabulating the advantages of each.   4

    (c) What are the major goals of the EJB specifications ?   6

    (d) What is the difference between session beans and entity beans ? Give examples of where each would be used.   6

    (e) What is the difference between SGML and XML ? Why is SGML not used much, on the web ?   4

    (f) What is SSL ? Describe briefly the two way SSL authentication mechanism.   4

(g) Suppose there is a table named as student   **11**
in MS-Access with fields : std_id, name,
course, ph_no. Write a Java program to
insert and display the records of this table
using JDBC.

2. (a) Explain how two servlets can communicate   **10**
through a shared object. How can you
ensure that the garbage collection
mechanism does not derail this approach ?

(b) How do you use JDBC to query and modify   **10**
a database ? Explain with example
programs.

3. (a) What is a custom tag in JSP ? What are the   **10**
components that make up a tag library in
JSP ?

(b) Describe with suitable program fragments   **10**
how you can include files and applets in a
JSP page.

4. (a) Explain the life cycle of stateless and statefal   **10**
session bean.

(b) (i) List the restrictions on what EJBs can   **5**
do ?

(ii) Distinguish between Bean Managed   **5**
and Container Managed persistence
for Entity Beans.

5. (a) Explain SSL authentication with encryption **10** and handshake.

 (b) How do you use JNDI authentication to **10** authenticate clients ? Explain with example program.