MCA (Revised)

Term-End Examination

June, 2007

MCS-051 Ⓢ : ADVANCED INTERNET TECHNOLOGIES

Time : 3 hours   Maximum Marks : 100

Note :   Question number 1 is **compulsory**. Attempt any **three** questions from the rest.

1. (i) Write a servlet program that takes your name and address from an HTML form and displays it.   10

   (ii) Does the JDBC-ODBC bridge support multithreading ? Explain.   5

   (iii) Briefly describe the relationship of applets and servlets with JSP.   5

   (iv) What is the advantage of using an entity bean for database operations, over directly using JDBC API to do database operations ? When would you need to use one over the other ?   5

   (v) Make a comparison between HTML and XML with the help of examples.   5

(vi) What are the advantages of using Java's multiple layer security implementation ?   *5*

(vii) Draw the high level software architectural diagram and explain its components.   *5*

2. Differentiate between the following :   *20*

(i) GET vs POST

(ii) JSP vs Servlets

(iii) Servlet Context vs Servlet Config

(iv) Session vs Cookie

(v) Data integrity vs Session integrity

3. (i) Explain the various types of JDBC drivers, their advantages and disadvantages.   *15*

(ii) What is custom tags in JSP ? List some of its features.   *5*

4. (i) Draw the layered architecture of EJB and explain its components briefly.   *10*

(ii) Through an example, briefly describe the structure of the XML document.   *10*

5. (i) Explain the issues related to SSL authentication.   *15*

(ii) Differentiate between SGML and XML.   *5*