

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 addresses from an HTML form and displays it. 10
- (ii) What is a scriplet in JSP ? Show the use of JSP scriplets with the help of an example. 5
- (iii) Write step-by-step processes to connect a database using JDBC driver and explain. 10
- (iv) Describe all the three types of entities with the help of an example. 9
- (v) What is a digital certificate ? What does it include ? Describe. 6

2. (i) Describe the issues related to form based authentication and HTTPS client authentication. 10
- (ii) Draw a presentation layer software context diagram and describe it in detail. 10
3. (i) Why do we need XML ? Also list the advantages of XML over HTML and SGML. 10
- (ii) Give an example of a Message-Driven Bean and explain. 10
4. (i) How does the Session-bean differ from the Entity-bean in terms of transaction, object state, object sharing and failure recovery ? 10
- (ii) Draw a diagram to show security objects dependencies and explain each security object with the help of examples. 10
5. (i) What are the two ways used for Servlet Collaboration ? Explain through an example. 10
- (ii) With the help of an example, explain how does JSP connect to a database. 10