

MCA (Revised)

Term-End Examination

June, 2010

09432

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. (a) Write a web application for a online support 20
of a video library. This application should
have the following features :
- Add a new video information in the library.
 - Check in / check out process for renting purpose.
 - Status report containing the current status of videos in the library.

You are required to use the following tables
for your online video library.

VIDEO_INFO

ID	VIDEO_NAME	GENRE	YEAR_OF_RELEASE	TOTAL_COPIES
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CUSTOMER

CUST_ID	NAME	ADDRESS	REG_DATE
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TRANS

ID	CUST_ID	OPERATION	TRANS_DATE
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- Use JSP, servlet and JDBC to develop the application. Also develop a first page that will contain the links to access the functionality mentioned above. Please make the necessary assumption.
- (b) What is web security ? Explain with suitable examples. 5
- (c) Explain the different procedure of Recovery after system failure. 5
- (d) Briefly describes the two important interfaces included in the servlet API Http Servlet Request and Http Servlet Response along with servlet life cycle. 10
2. (a) Explain different types of JDBC drivers with their advantages and disadvantages. 10
- (b) Create a custom JSP tag that accepts a name (first name and surname) and converts that into a title case. The conversion should take care of special names such as McDuff. 10
- INPUT - brian mcduff
OUTPUT - Brian McDuff
3. (a) Write a MDB (Message Driven Bean) that calculates the monthly salary of an employee based on the attendance of the employee. Assume that you have EMP_ATT database available that contains the attendance of the employee. 10

- (b) Explain the followings : **10**
- (i) Two way SSL - Authentication with JNDI.
 - (ii) Two - way SSL Authentication with servlets.
4. (a) Explain four basic mechanism through which a web client can authenticate a user to a web server during Http Authentication. **10**
- (b) Discuss the advantages / disadvantages of EJB Architecure in terms of application management, security and inter operability. **10**
5. (a) Explain the life cycle of a stateless session bean and stateful session bean with diagram. Also discuss where we use which type of bean. **10**
- (b) Why do we use DTD/XSD ? Explain the advantages of XML over HTML. **10**
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