

MCA (Revised)
Term-End Examination
December, 2015

MCS-051 : ADVANCED INTERNET TECHNOLOGIES

Time : 3 hours

Maximum Marks : 100

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

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1. (a) Explain the differences between JDBC and ODBC. 5
- (b) Write a servlet code to fetch and display all the fields of PRODUCT table with attributes — product id, product name, product qty, product price, model and description. 10
- (c) Explain the benefits offered by EJB component architecture to Application developers and customers, in brief. 10
- (d) (i) Name any five JSP implicit objects and mention, the class they belong to. 5
- (ii) Write a JSP code fragment to insert the following fields into a database after extracting them from an HTML form : 5
- last name
- phone
- e-mail
- (e) Differentiate between SGML and XML. 5

2. (a) What are the advantages of using Java's multiple layer security implementation? 10
- (b) Explain the different types of JDBC drivers along with their advantages and disadvantages. 10
3. (a) Differentiate between the following : $5 \times 3 = 15$
- (i) Get vs Post
 - (ii) Generic Servlet vs http Servlets
 - (iii) Servlet Context vs Servlet Config
 - (iv) Stateful Session Bean vs Entity Bean
 - (v) Low Level Introspection vs High Level Introspection
- (b) Explain various circumstances under which a message driven bean should be used. 5
4. (a) Assume that there is a table named CUSTOMER in MS-Access with fields — (Cust_id, Cust_name, Cust_phone and Cust_address). Write a code for servlet which will display all the fields of Customer Table in a tabular manner. 15
- (b) Explain the different development goals of XML document. 5

5. (a) What are custom tags in JSP ? What are the components that make up a tag library in JSP ? 6
- (b) Write an XML DTD to represent the grade card of a student which contains the following : 8
- (i) Name – last, middle and first
 - (ii) Subject – five subjects
 - (iii) Marks
 - (iv) Grade
 - (v) Reserved Category (yes/no)
- (c) Explain EAI layer software context architecture with diagram. 6
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