

MCA (Revised)**Term-End Examination****December, 2013****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 importance of deployment descriptor in Servlet. 5
- (b) Create a custom JSP tag that accepts a name (first name and surname) and converts that into the title case. The conversion should take care of special names such as MC Donald. 10
 INPUT - Indian mc Donald
 OUTPUT - INDIAN MC DONALD
- (c) Explain the benefits offered by EJB component architecture to application developers and customers, in brief. 10
- (d) Write a program using Servlet and JDBC for developing an on-line submission of an examination form. You are required to create a database comprising of the following fields : 10
- (i) Student Name
 (ii) enrollment No.
 (iii) Course Code (s)
 (iv) Regional Centre Code

- (e) Why do we need XML ? Also list advantages of XML Over HTML. 5
2. (a) Write a Servlet program that takes your name and address from an HTML form and displays it. 10
- (b) Explain different types of JDBC drivers and discuss their advantages and disadvantages in brief. 10
3. (a) Differentiate between the following : 10
- (i) GET vs POST
- (ii) JSP vs Servlets
- (iii) Servlet Context vs Servlet Config
- (iv) Session vs Cookie
- (v) Data integrity Vs Session integrity
- (b) Create a HTML Reader JSP tag that read the HTML page from a link and will display the content on the JSP. Donot use 'include' directive. 10
4. (a) Assume that there is a table named part in MS - Access with fields (Part - id, Part - name, Part - under, Part - description). Write a code for servlet which will display all the fields of Part Table in tabular manner. 10
- (b) Briefly describes the two important interfaces included in the servlet API Http Servlet Request and Http Servlet Response along with servlet life cycle. 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) Write an XML DTD to represent the grade card of an employee which contains. 5
- (i) Name - last, middle and first
 - (ii) Department - Five departments
 - (iii) Salary
 - (iv) Designation
 - (v) Married (yes/no)
- (c) Compare and contrast Computer Security and Network Security. 5
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