

ALCCS

Time: 3 Hours

JUNE 2016

Max. Marks: 100

PLEASE WRITE YOUR ROLL NO. AT THE SPACE PROVIDED ON EACH PAGE IMMEDIATELY AFTER RECEIVING THE QUESTION PAPER.

NOTE:

- **Question 1 is compulsory and carries 28 marks. Answer any FOUR questions from the rest. Marks are indicated against each question.**
- **Parts of a question should be answered at the same place.**

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- Q.1**
- Compare Application Server with web server.
 - Write the advantages of using Cascading style sheet in web page design.
 - Write short notes on XSLT.
 - Write any four key principles of good Ajax applications.
 - Write some of the characteristics of an enterprise bean.
 - What is the JMS API?
 - What is an XML schema? (7×4)
- Q.2**
- Following are the content to put into the XML document:
 - The root element is "Employee_Info"
 - As the content for "Employee_Info," "Employee" occurs 0 or more times
 - As content of "Employee," "Name," "Department," "Telephone," and "Email" elements occur once in respective order
 - "Name," "Department," "Telephone," and "Email" content are text strings
 - "Employee" has an attribute called "Employee_Number"
 - "Employee_Number" content must be *int* type
 Prepare XML Schema to provide a schema definition for the content given above (employee.xs). Also prepare a valid XML document (employee.xml) for the XML Schema (employee.xs). Also create the tree structure for information given above. (3+3+3)
 - Write a simple program that downloads and prints out the contents of a specified POP mailbox. (9)
- Q.3**
- Explain in detail the different modules of Spring Framework. (10)
 - What is EJB container? Explain the different services provided by EJB container to the application developer. (8)

Code: CT51**Subject: WEB TECHNOLOGY**

- Q.4** a. Explain the following Ajax communication techniques with their advantages and disadvantages.
(i) The hidden frame techniques
(ii) XML Http Requests (XHR) **(6+6)**
- b. Write a function in java script that validates if the content has the general syntax of an email. **(6)**
- Q.5** a. Compare the features of HTML, DHTML and XML. **(10)**
- b. What is Servlet? List any four interfaces defined in javax.http.servlet. **(2×4)**
- Q.6** a. What are the different classes of objects in the model-view-controller (MVC) architecture? Also write the advantages of using MVC while designing web applications. **(9)**
- b. With the help of suitable figure, describe the basic architecture of JMS application. **(9)**
- Q.7** a. Write a program to implement socket programming using Datagram class in java. **(9)**
- b. Write a Simple bean component which has three properties length, width and height. Write a program for accessing the properties of the bean. **(9)**