Code: CT51   **Subject: WEB TECHNOLOGY**

ALCCS – NEW SCHEME

Time: 3 Hours   **FEBRUARY 2013**   **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   a. What do you mean by protocol? Explain the role of HTTP and TCP/IP protocols in the web?

      b. Show the structure of an HTML page with some basic tags. Write HTML code for embedding a table in a web page.

      c. How is XML defined? Write down the XML syntax and structure rules. What is DTD? Discuss its applications.

      d. How many requests by default can be queued in ServerSocket? What are the differences between ServerSocket and Socket? Discuss about the ServerSocket class.

      e. Explain the lifecycle of Servlet.

      f. Write the advantages and disadvantages of XHR.

      g. What is java bean? What are the necessary criteria of bean class? How many types of properties are in java bean? Discuss about them.   **(7×4)**

Q.2   a. How do you get JavaScript onto a web page? Explain with examples.   **(9)**

      b. Describe the steps to implement a stateless session bean in detail.   **(9)**

Q.3   a. Write a program to implement socket programming using TCP/IP protocol in java. **(9)**

      b. Describe types of enterprise java beans.   **(9)**

Q.4   a. How do you create a link? How do you link to a location in the middle of an HTML document?   **(9)**

      b. How to handle the concurrent Ajax request?   **(9)**

Q.5   a. Describe the programming model of Java Message Service.   **(9)**

b. Explain the inbuilt objects of JSP. What is the difference between <jsp:include page = ... > and <%@ include file = ... >   **(9)**

Q.6   a. Describe the role that XSL can play when dynamically generating HTML through suitable example.   **(9)**

b. Describe the basic JMS API programming Model.   **(9)**

Q.7   a. How do you submit a form or a part of a form without a page refresh? Explain with example.   **(9)**

b. Describe Java Message Service. How to build JMS Client?   **(9)**