

ALCCS – NEW SCHEME

Time: 3 Hours

FEBRUARY 2012

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.

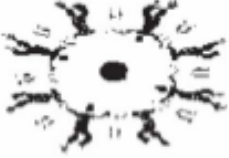
Q.1**(7 × 4)**

- a. How DHTML is different from HTML?
- b. Give meaning of the following socket primitives for TCP/IP: Socket, Bind, Listen, Accept, Connect, Send, Receive, Close
- c. What do you understand by a Socket communication?
- d. Give an example of XML document.
- e. Comment on the following statement:
“AJAX is about better internet applications”
- f. What are thread pools? What are their advantages?
- g. What is an application server and a web application server?

Q.2

- a. Write a Javascript example that displays date when a button is clicked. **(8)**
- b. Write the HTML code to generate the Web Page given in Fig.1. Take into consideration the requirements given below for designing the Web Page:
 - (i) Background colour of the page should be “Cyan”.
 - (ii) Text style should be Comic Sans MS and colour should be Red.
 - (iii) Picture used in the page is the file “activity.jpg”
 - (iv) Table should have a border of color blue.
 - (v) Use the concept of nested lists for creating the list given in the web page with specified bullets.
 - (vi) Pages linked to:
 - Indoor Activities as “in.html”
 - Outdoor Activities as “out.html”
 - (vii) Bottom message should be of size 2. **(10)**

The Little Starlings



Welcome to our World....

The Little starlings is an hobby club that believes in all-round development of a child through various activities.

We offer the following activity choices:

1. Indoor Activities
 - Dramatics
 - Dance
2. Outdoor Activities
 - Horse-riding
 - Swimming

Activity	Activity Charges
Activity	Monthly Charges
Dramatics	Rs. 250
Dance	Rs. 350
Horse-riding	Rs. 400
Swimming	Rs. 500

For enquires Mail to us

Fig.1

- Q.3** a. What are the statements normally present in a simple server program written in Java? Write an example program that illustrates creation of a server socket, waiting for client request, and then responding to a client that requested for connection by greeting it "Hello, R u there?" (9)
- b. How do you use http client for sending request? Write an example program that retrieve files from the URL "http://www.myaddr.net/my/file" (9)
- Q.4** a. What is XPath? How many nodes are there in XPath? Show different types of nodes in an example XML document. (9)
- b. Write an example program that parses an XML string into an XML DOM object and then extracts some information from it with a JavaScript. (9)
- Q.5** a. Why should we use AJAX for web application? What is GWT? What are the problems in AJAX that GWT tries to address? (6)

Code: CT51**Subject: WEB TECHNOLOGY**

- b. What is a Session Bean? Differentiate between two categories of Session Bean- Stateful and Stateless Session Beans. (6)
- c. In what way using the JMS API in a J2EE application differs from using it in a stand-alone client application? (6)
- Q.6** a. What steps are involved in developing a Stateful Session Bean? Explain using a suitable example program. (10)
- b. Discuss JMS programming model and architecture of JMS application. (8)
- Q.7** Answer any **FOUR**:
- (i) Fundamentals of protocol design
 - (ii) Name space and XML schema
 - (iii) EJB
 - (iv) SMTP protocol
 - (v) SAX 1.0
- (4.5×4)**