

**Code No: C7805, C0504, C5804, C4003, C7407, C2504, C6201****JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY HYDERABAD****M.Tech I Semester Examinations, April 2011****JAVA & WEB TECHNOLOGIES****(COMMON TO COMPUTER NETWORKS & INFORMATION SECURITY,  
COMPUTER SCIENCE, INFORMATION TECHNOLOGY, COMPUTER  
SCIENCE & ENGGG., PARALLEL COMPUTING, SOFTWARE  
ENGINEERING, WEBTECHNOLOGIES)****Time: 3hours****Max. Marks: 60****Answer any five questions  
All questions carry equal marks**

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1. a. Describe the JavaScript global functions in detail.  
b. Write a script that inputs a telephone number as a string in the form (777)777-7777. The script should use string method split to extract the area code as a token and the last four digits of the phone number as a token. Display the area code in one text field and the seven digit phone number in another text field. [12]
2. a. What are the limitations of Document Type Definitions (DTDs)? How these limitations are overcome using XML schema?  
b. Explain in detail the various methods of DOM. [12]
3. a. Differentiate between AWT controls and Swing controls.  
b. Develop a homepage for an "News Channel" using Applet and Swing concepts. [12]
4. a. Describe the servlet architecture and the various interfaces invoked by the servlet container.  
b. Write a servlet program that handles HTTP GET Request containing data that is supplied by the user as a part of the request. [12]
5. a. Explain the JDK introspection.  
b. Explain the Bean Info Interface with an example. [12]
6. a. Explain the JSP page processing.  
b. Discuss about the application design with MVC architecture. [12]
7. a. Explain the implicit JSP objects.  
b. Write a JSP program to display the current date and time. [12]
8. a. How does the JSP provide connectivity to databases?  
b. What is included in the JSP scripting component? Explain with an example. [12]

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