

FACULTY OF INFORMATICS

B.E. 2/4 (IT) II-Semester (Main) Examination, May 2013

Subject : **Web Technologies**

Time : 3 Hours

Max. Marks: 75

Note: Answer all questions of Part - A and answer any five questions from Part-B.**PART – A (25 Marks)**

1. List the steps to be followed for designing a web page. (3)
2. Describe the following: (i) Domain naming Services (ii) Web servers (2)
3. What is CGI? List any four CGI script languages. Explain the procedure how CGI scripts works. (3)
4. Write a CSS rule that sets an element to occupy 60% of the screen width and that is centered horizontally. (3)
5. What is web server? List and explain any two Web servers. (3)
6. Discuss various file reading modes in PHP. Give an example. (2)
7. How to manage Cookies in Perl? (2)
8. Write regular expression in Perl to match the following patterns: (2)
 - (i) AAA BBB CCC (ii) ab*c (Zero or More b's in the entered string)
9. Discuss various JSP implicit objects. (3)
10. What are the benefits of Java Servlet? (2)

PART – B (5x10=50 Marks)

- 11.(a) Develop a Java Script program that will determine whether a department store customer has exceeded the credit limit on a charge account. For each customer the following facts are available. (i) Account number (ii) Balance at the beginning of the month (iii) Total of all items charged by this customer this month. (iv) Allowed credit limit (v) Total of all credits applied to this customer's account this month. The program should input each of these facts from prompt dialogs as integers, calculate new balance, display the new balance and determine whether the new balance exceeds the customer's credit limit. The program should output HTML text that displays the appropriate message. (6)
- (b) Write a Java Script code block using arrays and generate the current date in words, this should include the day, the month and the year. The output should be as follows **Wednesday, February 22, 2012** (4)
- 12.(a) Explain the XML document Structure with an example code. (5)
- (b) What is XML schema? How to create an XML schema? What are the Meta requirements for XML schemas? (5)
- 13.(a) Develop a Perl program which validates a registration form. The registration form consists a *User Name*, *Password* and *Submit* button. Store all the Usernames and passwords in text file called *database.txt*, Compare the username and password given by the user in the registration form with the actual username and password available in text file if both are matched display the message "Permission granted to Username", otherwise display "Sorry you entered a wrong username or password try again". If the user entered three times the wrong information display the message "Access has been denied", and don't allow the user to enter information in registration form. (7)
- (b) Write a Perl program that tests whether an email address is correct or not, suppose the user enters the wrong email address give suggestion to the user. (3)

..2..

- 14.(a) Compare and contrast Generic Servlet and HTTP Servlet Classes. Explain with suitable example. (5)
- (b) Explain the procedure how to manage User Sessions in JSP. Give an example code. (5)
- 15.(a) Define file. Explain how to upload a file from client in PHP. Give an example code. (5)
- (b) Explain how to access database with Perl. Give an example code. (5)
- 16.(a) Discuss various Syntactic characteristics of PHP. (5)
- (b) Write a Java Script program to count the frequencies of words types in a text area field and display the result in a neat table. (5)
17. Write short notes on the following: (10)
- (a) XHTML document structure
 - (b) HTTP Response Header
 - (c) JSP Session Object
 - (d) XSLT
