USN

Advanced Web Programming

Max. Marks:100

Time: 3 hrs.

Note: *Answer any FIVE full questions.*

1   a. How are arrays declared in PERL? Explain any four built-in array functions.   **(10 Marks)**
     b. Write a note on PERL user defined functions. Explain how @_ built-in array is used in parameter passing mechanism with examples.   **(10 Marks)**

2   a. Explain CGI with a suitable diagram and its linkage.   **(05 Marks)**
     b. Write a CGI-PERL program to use a COOKIE to remember the day of last login of user and display it when executed.   **(05 Marks)**
     c. Write a note on CGI.pm module. Explain with examples the following CGI.pm functions tr, a, header and start_html.   **(10 Marks)**

3   a. Describe the PERL DBI module with a neat diagram.   **(04 Marks)**
     b. Explain the following PERL DBI methods: connect, prepare and selectrow_array.   **(06 Marks)**
     c. Why it is necessary to track users data in web applications? Explain the different ways to track the users data in PERL web applications.   **(06 Marks)**
     d. Write a note on LIBWWW PERL module.   **(04 Marks)**

4   a. Explain the modes of PHP processor.   **(04 Marks)**
     b. Explain the action of the implode and explode functions with suitable examples.   **(06 Marks)**
     c. Write a PHP program which demonstrates sort, assort and Ksort function Array/hash.   **(10 Marks)**

5   a. Write a Ruby program that accepts numbers a, b, c and x from Reyboard and compute $ax^2 + bx + c$.   **(06 Marks)**
     b. Differentiate upcase and upcase! with examples.   **(04 Marks)**
     c. Write a program in Ruby that accepts a text from the keyboard which consists of white space or punctuation and list the unique words in the input along with frequencies of occurrences in alphabetical order.   **(10 Marks)**

6   a. Write a note on MVC application.   **(06 Marks)**
     b. Write a note on RAILS.   **(04 Marks)**
     c. Build a RAILS application that accepts two integer values and produce the product of the two values and returns it to the client.   **(10 Marks)**

7   Write short notes on:
     a. SAAS
     b. Web 2.0
     c. Iterative Development
     d. Social Networking   **(20 Marks)**

8   a. Explain SOAP in detail.   **(10 Marks)**
     b. Define JSON. Explain how mixing of array and object literals are used to store data with examples.   **(10 Marks)**

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