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Fourth Semester MCA Degree Examination, Dec.2015/Jan.2016
Advanced Web Programming

Time: 3 hrs.

Max. Marks:100

Note: Answer any FIVE full questions.

- 1
 - a. Explain with examples scalar, array and hash variables in Perl. (06 Marks)
 - b. Explain with example substitute function in Perl and mention its modifiers and examples. (08 Marks)
 - c. What is 'file handle'? Explain open, print and read file handling functions in Perl. (06 Marks)
- 2
 - a. Write six important features of CGI.pm (06 Marks)
 - b. Write equivalent html shortcuts in CGI for following tags.
 - i) `<ul type = "disc">`
 - `<(li> TV`
 - `<(li> Radio`
 - `<(li> Computer`
 - ``
 - ii) `< table border =2 >`
 - `< tr >`
 - `< th > Fruits </th >`
 - `< th > Nuts </th >`
 - `< /tr >`
 - `< tr >`
 - `< td > Apple < /td >`
 - `< td > Almond < /td >`
 - `< /tr >`
 - `< /table >`
 - c. List and explain steps in creation of dynamic html pages using CGI. (08 Marks)
- 3
 - a. Illustrate with example uploading files using Perl. (10 Marks)
 - b. What is the benefit of Perl DBI? Explain Perl DBI methods. (10 Marks)
- 4
 - a. List and explain with example four scalar types in PHP. (08 Marks)
 - b. Create an array of name and age. Sort this array by keys using built – in function in PHP and print the array (Note : key is name and value is age). (06 Marks)
 - c. Explain in brief PHP's XML facilities. (06 Marks)
- 5
 - a. Explain following string methods in Ruby : Catenation, append,.chomp, and bang. (08 Marks)
 - b. Illustrate gets and puts methods in Ruby with a example program to multiply three numbers of integer type. (08 Marks)
 - c. Explain the syntactic container of class in Ruby with a example. (04 Marks)
- 6
 - a. Describe briefly the ORM used by Rails. (06 Marks)
 - b. Explain following keywords in Rails.
 - i) has – many
 - ii) belongs – to
 - c. Explain Layout in Rails. (06 Marks)
- 7
 - a. Discuss how the rich browser experience is made possible. (07 Marks)
 - b. Explain social networking and mention different social networking sites. (05 Marks)
 - c. Explain SaaS and multiple Delivery channels in Web 2.0. (08 Marks)
- 8
 - a. Write a note on following : i) SOAP ii) JSON (10 Marks)
 - b. Explain REST with sample REST call (05 Marks)
 - c. Define web service and explain WSDL. (05 Marks)