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13MCA43

**Fourth Semester MCA Degree Examination, Jun/July 2015**  
**Advanced web programming**

Time: 3 hrs.

Max. Marks:100

**Note: Answer any FIVE full questions.**

- 1 a. Write the string functions with respective actions in Perl, with an example each. (07 Marks)  
b. Explain basics of pattern matching, transliterate operator and substitution operations, with example in Perl. (10 Marks)  
c. Write a Perl program to count odd numbers in array. (03 Marks)
- 2 a. What is parsing the data in CGI? How data can be parsed using GET and post methods with an example. (07 Marks)  
b. Explain different CGI.pm methods. (07 Marks)  
c. How are the associative array works in Perl. Give an example. (06 Marks)
- 3 a. Write a Perl program for reading from a database and writing to a database. (10 Marks)  
b. Explain Perl DBI and its methods. (06 Marks)  
c. Describe LIBWWW method in Perl. (04 Marks)
- 4 a. What is the different between cookies and sessions? How to create a cookie and sessions? Give an example. (10 Marks)  
b. How to create an array in pHP? Explain different functions for dealing with arrays. (10 Marks)
- 5 a. With an example, explain the built – in methods for arrays and lists in Ruby. (10 Marks)  
b. Give the difference between chop and chomp string functions in Ruby. (04 Marks)  
c. Write the Remembering and substitution pattern matching in Ruby. (06 Marks)
- 6 a. Describe directory structure for the rails application. (08 Marks)  
b. Build a Rails application to accept book information Viz accession no, little, authors, edition and publisher from a web page and store the information in a database and to search for a user and to display the search results with proper headings. (12 Marks)
- 7 a. What is web 2.0? explain Folk simonies and web 2.0? (06 Marks)  
b. What are SaaS? Explain the advantages of SaaS. (06 Marks)  
c. Explain convergence and Iterative development. (08 Marks)
- 8 a. Describe SOAP. Explain different styles of SOAP with an example. (10 Marks)  
b. What is JSON? Explain JSON format. (10 Marks)

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Important Note : 1. On completing your answers, compulsorily draw diagonal cross lines on the remaining blank pages.  
2. Any revealing of identification, appeal to evaluator and/or equations written eg, 42+8 = 50, will be treated as malpractice.