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13MCA43

**Fourth Semester MCA Degree Examination, June/July 2017**

**Advanced Web Programming**

Time: 3 hrs.

Max. Marks:100

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

- 1 a. Explain Perl arrays with creation methods. How Perl arrays differ from other arrays? (06 Marks)  
b. Explain with examples any two string functions in Perl. (04 Marks)  
c. Explain the basics of pattern matching, substitutions and transliterate in Perl. (10 Marks)
- 2 a. List and explain some of the common CGI.pm functions. (06 Marks)  
b. Explain steps in creation of dynamic html pages using CGI. (08 Marks)  
c. Explain methods in adding robustness to CGI scripts. (06 Marks)
- 3 a. Write a Perl program to insert name and age information entered by the user in to a table created using MySQL and to display the current content of this table. (10 Marks)  
b. What is the benefit of Perl DBI? Explain Perl DBI methods. (10 Marks)
- 4 a. List and explain syntactic characteristics and uses of PHP. (10 Marks)  
b. Explain file handling functions in PHP with examples. (10 Marks)
- 5 a. Explain in brief PHP's XML facilities. (06 Marks)  
b. Explain built-in methods for arrays and lists in Ruby. (10 Marks)  
c. Explain syntactic container for class in Ruby. (04 Marks)
- 6 a. Write function definition in Ruby for swapping of two numbers. (05 Marks)  
b. Explain with figure directory structure of rails application. (08 Marks)  
c. Give an example how dynamic documents are generated in Ruby on Rails. (07 Marks)
- 7 a. What are social networkings? Briefly discuss about floksonomies. (06 Marks)  
b. Explain SaaS and multiple delivery channels in Web 2.0. (08 Marks)  
c. Discuss how the rich browser experience is made possible. (06 Marks)
- 8 a. What is JSON? Explain the different types of literals used in JSON with examples. (10 Marks)  
b. Write short notes on SOAP, WSDL and REST services. (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 information, appearance of candidate's name or signature on the question paper is liable for cancellation of the candidature.