USN ☐☐☐☐☐☐☐☐☐☐ 13MCA43

Fourth Semester MCA Degree Examination, June/July 2016
Advanced Web Programming

Time: 3 hrs. Max. Marks:100

Note: *Answer any FIVE full questions.*

1 a. How do you create functions in perl? Explain the role of implicit array @_ in perl functions. **(05 Marks)**
   b. Write a perl program to find area and circumference of a circle. **(05 Marks)**
   c. Why do you use binding operator in perl? Explain the meta characters and character classes used in perl pattern matching. **(10 Marks)**

2 a. How do you create html pages dynamically in perl using CGI.pm methods? Explain with proper examples. **(08 Marks)**
   b. How do you make your perl script robust? Explain. **(04 Marks)**
   c. Explain the parts of cookie function in perl. How do you delete a cookie? Give examples. **(08 Marks)**

3 a. Explain the concept of uploading the files and tracking users using hidden data with suitable examples. **(10 Marks)**
   b. How do you interact with relational databases in perl? Explain the functions used for the process. **(10 Marks)**

4 a. Explain arrays in PHP with suitable examples. Discuss the variations of sort( ) function with examples. **(10 Marks)**
   b. Explain session tracking in PHP. **(05 Marks)**
   c. Explain the mechanisms available for handling xml in PHP. **(05 Marks)**

5 a. Explain string methods in ruby with suitable examples. **(10 Marks)**
   b. Write a ruby program to input four numbers a, b, c, x and find the value of the expression $ax^2 + bx + c$. **(10 Marks)**

6 a. Build a rails application that accepts two integer values and produce the average of the two values and returns it to the client. **(10 Marks)**
   b. How do you build databases in rails? Explain. **(10 Marks)**

7 a. Explain SaaS and social networking with respect to Web 2.0. **(10 Marks)**
   b. Explain various web services. **(10 Marks)**

8 Write short notes on the following :
   a. CGI :: Carp
   b. libwww
   c. Rich user experience
   d. JSON

(20 Marks)

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