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Fourth Semester MCA Degree Examination, Dec.2018/Jan.2019
Advanced Web Programming

Time: 3 hrs.

Max. Marks:100

Note: Answer any FIVE full questions.

- 1
 - a. With an example explain the functions which operate on scalars. (06 Marks)
 - b. Explain three basic types of blocks in Perl with examples. (10 Marks)
 - c. Write a Perl Program : (04 Marks)

Input : A file specified on the command line lines of text, where each line is a person's name.

Output : The input names, after all letters are converted to uppercase, in alphabetical order.
- 2
 - a. What is CGI? With a diagram explain the communications configuration for CGI. (04 Marks)
 - b. Brief on cookie, the different parts of a cookie and how cookies are handled in cgi.pm, with example for creating, reading and deleting a cookie. (10 Marks)
 - c. What is the purpose of the shortcuts in CGI.pm? Explain the different Methods in CGI.pm. (06 Marks)
- 3
 - a. Explain different Perl DBI methods. (05 Marks)
 - b. Write a CGI-Perl program to use a cookie to remember the day of the last login from a user and display it when run. (10 Marks)
 - c. Describe Carp and libwww. (05 Marks)
- 4
 - a. Explain the origins and uses of PHP. (07 Marks)
 - b. Explain with an example the different ways to include PHP in a page. (03 Marks)
 - c. Write a PHP program is illustrate sort, asort and ksort and give the output when PHP page is executed. (10 Marks)
- 5
 - a. Explain various string methods in Ruby with example for each. (10 Marks)
 - b. Explain Arrays in Ruby. With example describe the different built in methods for Array. (10 Marks)
- 6
 - a. Explain the directory structure of a Rails Application. (08 Marks)
 - b. Mention the steps to build the Database in Rails Application. (08 Marks)
 - c. Explain Layouts in Rails. (04 Marks)
- 7
 - a. Write short notes on Rich User Experience and Social Networking with respect to Web 2.0. (10 Marks)
 - b. Explain SaaS with advantages and applications. (10 Marks)
- 8

Write short notes on :

 - a. SOAP
 - b. WSDL
 - c. REST services
 - d. JSON Encoding and Decoding. (20 Marks)

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