

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)

* * * * *

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.