USN ☐☐☐☐☐☐☐☐☐☐ **13MCA43**

Fourth Semester MCA Degree Examination, June/July 2018
Advanced Web Programming

Time: 3 hrs.   Max. Marks:100

Note: *Answer any FIVE full questions.*

1   a.   Explain hashes and its manipulation in Perl.   (10 Marks)
    b.   Explain file input and output concept in Perl   (10 Marks)

2   a.   Write a note on the following :
         i)   CGI.PM method
         ii) Adding Robustness to CGI script.   (12 Marks)
    b.   Discuss start_html method.   (08 Marks)

3   a.   In detail, explain Perl DBI methods.   (12 Marks)
    b.   Explain scalar type conversions in PHP.   (08 Marks)

4   a.   Explain file handling in PHP.   (10 Marks)
    b.   How users can be tracked in PHP built web applications? Explain.   (10 Marks)

5   a.   Briefly explain the concept of classes in Ruby.   (10 Marks)
    b.   Write a note on following :
         i)   Times and collect iterator.
         ii) sub and gsub!   (10 Marks)

6   a.   Build a Rails application to accept book information Viz accession no., title, 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.   (15 Marks)
    b.   What is SaaS? Explain its advantages.   (05 Marks)

7   a.   Explain convergence is iterative development.   (10 Marks)
    b.   What is SOAP? With example explain its styles.   (10 Marks)

8   Write a note on the following :
    a.   Referencing in Perl
    b.   Sequential access to array elements in PHP
    c.   Shift and push methods in Ruby
    d.   Folksonomies and web 2.0.   (20 Marks)

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