DF-1667
M. Sc. (ICT) (Sem. III) Examination
March / April - 2016
Open Source Web Development
(Old & New)

Time : 3 Hours] [Total Marks : 70
Instructions :
(1) Fill up strictly the details of signs on your answer book.
Name of the Examination:
M. SC. (ICT) (SEM. III)
Name of the Subject:
Open Source Web Development (Old & New)

Seat No.:

Subject Code No. : 1 6 6 7 Section No. (1, 2, ...): NII

Student's Signature

(2) All questions are compulsory.

Q:1 Answer the following. (Any THREE) [18]
1 What is state management? Explain with example how to pass variable between web pages using different techniques in PHP.
2 Write a note on PDO with example program with MySql.
3 Define SQL injection and explain its remedies with examples.
4 Explain following functions:
moves_uploaded_file()
moves_affected_rows()
session_destroy()
max_execution_time()
unset()
in_get()

Q:2 Do as directed [18]
1 Display files of a directory in tiles view with customized pagination. (Files per page should be modifiable by the user.) [08]
OR
1 Design and develop MyImage class which encapsulates core image GD functions with following image operations:
   - Embed text on image
   - Resized copy
   - get_height
   - get_width
   - get_pixel_color
2 Considering shopping cart application, design and develop a dynamic webpage to showcase all information about a product of a specific category with all its images (maximum 5 image per product) and N number of features. (Also specify database design) [10]
Q:3  Answer the following. (Any THREE)  [18]
1 Explain Ruby data types and variables with example.
2 Write a note on Rails controller.
3 Write a note on CRUD operations in Rails.
4 Write a note on XML support in PHP along with a list of XML parsing libraries available in core PHP. Write a PHP script to parse student.xml file and display its data on a webpage using any one of these libraries.

Q:4  Answer the following. (Any FOUR)  [16]
1 Demonstrate use of ‘rails generate’ and ‘rails server’ commands.
2 Develop a master module for managing books table using RoR.
3 Explain working of Rails migration.
4 Write a note on frameworks in php with demonstrative application in any one of framework.
5 List and explain practical usage of server variables in php.