



**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)

<p>नीचे दर्शायेव निशानीवाणी विगतो उत्तरवही पर अवश्य कर्णवी. Fillup strictly the details of signs on your answer book.</p> <p>Name of the Examination : <input type="text" value="M. SC. (ICT) (SEM. III)"/></p> <p>Name of the Subject : <input type="text" value="Open Source Web Development (Old &amp; New)"/></p> <p>Subject Code No. : <input type="text" value="1"/> <input type="text" value="6"/> <input type="text" value="6"/> <input type="text" value="7"/> Section No. (1, 2,.....): <input type="text" value="Nil"/></p>	<p>Seat No. : <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/></p> <div style="border: 1px solid black; border-radius: 15px; padding: 10px; text-align: center; width: 100%;">Student's Signature</div>
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(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:  
move\_uploaded\_file()  
mysql\_affected\_rows()  
session\_destroy()  
max\_execution\_time()  
unset()  
ini\_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: [08]
  - 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.
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