



LOYOLA COLLEGE (AUTONOMOUS), CHENNAI – 600 034

M.C.A. DEGREE EXAMINATION – COMPUTER APPLICATIONS

FIRST SEMESTER – NOVEMBER 2016

16PCA1MC03 - FREE AND OPEN SOURCE SOFTWARE DEVELOPMENT

Date: 07-11-2016
Time: 01:00-04:00

Dept. No.

Max. : 100 Marks

Part A

Answer ALL the Questions

10 x 2 = 20

1. What is Proprietary Software?
2. What was Mr. Richard Stallman's contribution to FOSS?
3. What is a client-side scripting language? Give an example.
4. Write in few lines about LAMP.
5. "Trim functions play an important role for data analytics" Comment in few lines.
6. How is a cookie useful?
7. What is TINYINT?
8. What is LONGBLOB?
9. What is JavaScript?
10. What is charAt() used for?

Part B

Answer ALL the Questions

5 x 8 = 40

11 a) Discuss the history of Free Software.

OR

b) Briefly explain GNU-GPL, IBM, and Mozilla Licenses.

12 a) Discuss various Math functions in PHP.

OR

b) Write short notes on (i) Web Client (ii) Web Server

13 a) Explain the E-Commerce Frameworks developed using PHP.

OR

b) Explain Regular Expressions in PHP.

14 a) Explain the MySQL statements for performing operations on Table Data.

OR

b) Explain the string types in MySQL.

15 a) Explain the Control Statements in JavaScript.

OR

b) Discuss Screen Output and Keyboard Input in JavaScript.

Part C

Answer any TWO Questions

2x 20 = 40

- 16 a) Write in detail about the advantages and disadvantages of Proprietary, Free, and Open Software.
- b) Discuss the salient features of PHP.
- 17 a) Provide the syntax for various string functions in PHP.
- b) Write down at least five MySQL statements with 'where' and 'group by' parameters.
- 18 a) Discuss the various string functions in JavaScript.
- b) Discuss widely recognized FOSS Projects.
