



LOYOLA COLLEGE (AUTONOMOUS), CHENNAI – 600 034

M.C.A. DEGREE EXAMINATION – COMPUTER APPLICATIONS

FIRST SEMESTER – APRIL 2017

16PCA1MC03- FREE AND OPEN SOURCE SOFTWARE DEVELOPMENT

Date: 04-05-2017
Time: 09:00-12:00

Dept. No.

Max. : 100 Marks

Part A

Answer ALL the Questions 10 x 2 = 20

1. What is CopyLeft?
2. Define the term Free Software.
3. What is a server-side scripting language? Give an example.
4. List any two reasons as to why PHP is most preferred for web development.
5. Why is Validation required?
6. What is echo()?
7. List the basic data types in MySQL.
8. What is TIMESTAMP?
9. What are the primitives in JavaScript?
10. What is getDay() used for?

Part B

Answer ALL the Questions 5 x 8 = 40

11 a) Differentiate Open Source Software from Proprietary Software.

OR

b) Discuss BSD Software.

12 a) Provide an Overview of PHP.

OR

b) Discuss the primitives in PHP.

13 a) Demonstrate user-defined Functions in PHP.

OR

b) What is validation? Why should we validate form data-entry?

14 a) Explain the numeric types in MySQL.

OR

b) What are the MySQL statements used for aggregating and grouping data?

15 a) Explain the General Syntactic characteristics of JavaScript.

OR

b) Discuss the operators and expressions in JavaScript

Part C

Answer any TWO Questions 2x 20 = 40

- 16 a) Explain the origin and growth of Open Source Software development.
- b) Discuss the advantages and disadvantages of Client-side and Server-side technologies.
- 17 a) Write an essay on CMS frameworks developed using PHP.
- b) Explain MySQL statements for running calculations on Table Data.
- 18 a) Discuss the math functions in JavaScript.
- b) Discuss the widely used FOSS licenses.