

LOYOLA COLLEGE (AUTONOMOUS), CHENNAI – 600 034



M.C.A. DEGREE EXAMINATION – COMPUTER APPLICATIONS

FIRST SEMESTER – NOVEMBER 2019

16/17/18PCA1MC03 – FREE AND OPEN SOURCE SOFTWARE DEVELOPMENT

Date: 31-10-2019

Dept. No.

Max. : 100 Marks

Time: 01:00-04:00

Part A

Answer ALL the Questions: 10 x 2 = 20

1. What is difference between open-source and closed-source?
2. What is Freeware?
3. List the objectives of script.
4. What are the types of array supported in PHP?
5. Write about 'POST' method of form data handling.
6. Write short note on the different versions of PHP.
7. What is Decimal Data type?
8. What is ENUM?
9. List any two examples for client-side scripting languages.
10. How to give comments in JavaScript?

Part B

Answer ALL the Questions: 5 x 8 = 40

- 11 a) Briefly explain the milestones in the evolution of FOSS.

OR

- b) List the advantages and disadvantages of Proprietary software.

- 12 a) Enumerate how PHP is best suited for Web Development.

OR

- b) Explain the Logical Operators in PHP.

- 13 a) Illustrate the user-defined Functions in PHP.

OR

- b) Explain the need to validate form data-entry.

- 14 a) List any four numeric functions in MySQL with code snippet.

OR

- b) Explain any four string functions in MySQL

- 15 a) Demonstrate client-side validation in JavaScript with an example.

OR

- b) Explain the Conditional Statements in JavaScript.

Part C

Answer any TWO Questions: 2 x 20 = 40

- 16 a) Elaborate the widely used FOSS licenses.
 - b) List the advantages and disadvantages of Client-side and Server-side technologies.
- 17 a) Demonstrate the built-in Math and String functions in PHP.
 - b) Explain the MySQL queries for running calculations on Table Data.
- 18 a) Demonstrate the user-defined functions in JavaScript.
 - b) Illustrate the PHP pages' execution on the web server with the needed diagram.
