



**LOYOLA COLLEGE (AUTONOMOUS), CHENNAI – 600 034**

**M.C.A. DEGREE EXAMINATION – COMPUTER APPLICATIONS**

**FIRST SEMESTER – NOVEMBER 2018**

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

Date: 30-10-2018

Dept. No.

Max. : 100 Marks

Time: 01:00-04:00

**Part A**

**10 x 2 = 20**

**Answer ALL the Questions**

1. What are the rights that Free Software confer on users?
2. What was Mr. Richard Stallman's contribution to FOSS?
3. What is a client-side scripting language? Give an example.
4. List the primitives in PHP.
5. How is rand() useful?
6. Where does a cookie gets saved, and why?
7. What is BIGINT?
8. What is BLOB?
9. "ECMAScript is not related to JavaScript". Is this statement true? Comment in few lines.
10. How does JavaScript help in document animation and automation?

**Part B**

**5 x 8 = 40**

**Answer ALL the Questions**

- 11 a) Describe the events that resulted in FOSS movement.  
OR  
b) Narrate how one / developers' community can make a living with FOSS.
- 12 a) Elaborate variable handling in PHP.  
OR  
b) Illustrate the different types of arrays in PHP.
- 13 a) Demonstrate form handling in PHP.  
OR  
b) Substantiate the importance of validating form data-entry.
- 14 a) Demonstrate data access with PHP and MySQL.  
OR  
b) Enumerate the string types in MySQL.
- 15 a) Explain the control statements in JavaScript.  
OR  
b) Explain the operators and expressions in JavaScript

**Answer any TWO Questions**

- 16 a) Elaborate the advantages of Open Source Software and disadvantages of Proprietary Software.
- b) Describe the salient features of PHP.
- 17 a) Explain syntax for any five string functions in PHP, with code snippet.
- b) Demonstrate MySQL Functions using queries.
- 18 a) Demonstrate the widely used string functions in JavaScript.
- b) Substantiate as to how FOSS meet the requirements in Graphics and Multimedia Industry.

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