



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

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

**FIRST SEMESTER – APRIL 2019**

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

Date: 08-04-2019

Dept. No.

Max. : 100 Marks

Time: 01:00-04:00

**Part A**

**10 x 2 = 20**

**Answer ALL the Questions**

1. What is Freeware?
2. Who may be given credit for the FOSS movement? Why?
3. Define the term 'Script'.
4. What is WAMP?
5. Write the syntax for ltrim().
6. Is there any difference between echo and print?
7. What are basic data types in MySQL?
8. What is BLOB?
9. Where does the client-side script run?
10. Write an example for JavaScript based mobile operating system.

**Part B**

**5 x 8 = 40**

**Answer ALL the Questions**

- 11 a) Summarize the history of FOSS.  
OR  
b) Briefly explain GNU-GPL, IBM, and Mozilla Licenses.
- 12 a) Explain the execution of a PHP Script with a neat diagram.  
OR  
b) Write short notes on (i) Web Client (ii) Web Server
- 13 a) Demonstrate the user-defined Functions in PHP.  
OR  
b) Explain Regular Expressions in PHP.
- 14 a) Explain the numeric types in MySQL  
OR  
b) Write about the string types in MySQL.
- 15 a) Explain the General Syntactic characteristics of JavaScript.  
OR  
b) Briefly explain the operators and expressions in JavaScript

**Part C**

**2x 20 = 40**

**Answer any TWO Questions**

16. a) Enumerate the value propositions of FOSS.  
b) Write an essay on the salient features of PHP.
17. a) Write about the string functions in PHP.  
b) Write down at least five MySQL statements with 'where' and 'group by' parameters.
18. a) Demonstrate various string functions in JavaScript.  
b) Explain the Control Statements in JavaScript.

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