Reg.No. \_\_\_\_\_\_\_\_\_\_\_\_

**G:\logo and QP Template\logo 3 Feb 2018 final.tif**

**End Semester Examination – Nov/Dec– 2018**

|  |  |  |  |
| --- | --- | --- | --- |
|  |  |  |  |
| **Code :** | **17EC3069** | **Duration :** | **3hrs** |
| **Sub. Name :** | **EMBEDDED OPEN SOURCE SOFTWARE** | **Max. marks :** | **100** |

**ANSWER ALL QUESTIONS (5 x 20 = 100 Marks)**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Q. No.** | **Sub Div.** | **Questions** | **Course Outcome** | **Marks** |
| 1. | a. | Enumerate the various Linux modes. | CO1 | 14 |
| b. | Discuss the advantages and applications of Open Source Software. | CO1 | 6 |
| (OR) | | | |  |
| 2. | a. | What is a Process? Why it needs to be scheduled? Explain how the processes are being scheduled in Linux. | CO1 | 14 |
| b. | Interpret the functionalities of synchronous signals and synchronous signals in Linux. | CO1 | 6 |
|  |  |  |  |  |
| 3. | a. | Discuss about the various data types and operators available in MySQL with examples. | CO3 | 10 |
| b. | Write short notes about Starting, Terminating and writing SQL programmes. | CO3 | 10 |
| (OR) | | | |  |
| 4. | a. | Explain how a MySQL database table is created with sequence numberattribute and how to sort query results. | CO3 | 10 |
| b. | Write short notes on generating summary in MySQL. | CO3 | 10 |
|  |  |  |  |  |
| 5. | a. | Illustrate with example the functions in PHP. | CO3 | 10 |
| b. | Write a PHP code to copy the content of one file to another file. | CO3 | 10 |
| (OR) | | | |  |
| 6. |  | Create a student database containing student details such as roll number, name, and marks in MySQL. Write a PHP program to manipulate student database and display average marks of each student. | CO3 | 20 |
|  |  |  |  |  |
| 7. | a. | Explain any two sequence types in Python with examples. | CO2 | 10 |
| b. | Explain how the dictionaries are compared in PYTHON? | CO2 | 10 |
| (OR) | | | |  |
| 8. | a. | Discuss about files and exception handling in Python with examples | CO2 | 10 |
| b. | Illustrate the internal structure of a typical PYTHON module with the suitable example. | CO2 | 10 |
|  | |  |  |  |
|  | | **Compulsory**: |  |  |
| 9. | a. | Perform a case study on the list for various issues related with the design and development of open source software Apache Web server | CO6 | 14 |
| b. | Elaborate the process used to develop Mozilla? | CO6 | 6 |