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Code No: **R41057** 

Set No. 1

## IV B.Tech I Semester Supplementary Examinations, Oct/Nov - 2018 **OPEN SOURCE SOFTWARE**

(Common to Electronics and Communication Engineering, Computer Science and **Engineering and Information Technology**)

Time: 3 hours Max. Marks: 75

## **Answer any FIVE Questions** All Questions carry equal marks

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| 1 | a)       | Define system call? And how the Process Management done in LINUX environment Explain with suitable System Call.                    | [8]        |
|---|----------|------------------------------------------------------------------------------------------------------------------------------------|------------|
|   | b)       | Compare and Contrast LINUX Kernel mode with User mode.                                                                             | [7]        |
| 2 | a)       | What is Context Switch? Explain how context switch is implemented in Linux. What are the different process states?                 | [7]        |
|   | b)       | Define Scheduling, Data Structure. What are the data structures used for process scheduling in LINUX environment?                  | [8]        |
| 3 | a)       | Describe about MYSQL string functions with suitable examples.                                                                      | [7]        |
|   | b)       | Discuss all the data manipulations statements in MySQL. Explain with suitable examples.                                            | [8]        |
| 4 | a)<br>b) | Mention the scalar data-types provided by PHP? Explain with Examples. How will you use PHP to access data from MySQL?              | [7]<br>[8] |
| 5 | a)       | Define PHP? Explain Variables, Constants, Data types in PHP with example.                                                          | [7]        |
| 3 | b)       | Explain String Manipulation and expression in PHP.                                                                                 | [8]        |
| 6 | a)       | Illustrate the internal structure of a typical PYTHON module with the suitable example.                                            | [7]        |
|   | b)       | Explain Numbers, Sequences and Strings in PYTHON programming.                                                                      | [8]        |
| 7 | a)       | What do you meant by Errors and Exceptions? How they are different from each other? Explain types Errors and Exceptions in python. | [7]        |
|   | b)       | Explain all the file processing modes supported by Python.                                                                         | [8]        |
| 8 | a)       | Discuss the following:  (i) Features of Perl                                                                                       |            |
|   |          | <ul><li>(ii) File handling in Perl</li><li>(iii) Looping statement supported by PERL</li></ul>                                     | [8]        |
|   | b)       | What do you meant by control structures? How it will be implemented in                                                             |            |
|   |          | Perl? Explain.                                                                                                                     | [7]        |