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**E Reg. No. :**

**Question Paper Code: 55P31**

M.E. DEGREE EXAMINATION, NOV 2017

Elective

Computer Science and Engineering

15PCS504 - OPEN SOURCE SYSTEMS AND NETWORKING

(Regulation 2015)

Duration: Three hours Maximum: 100 Marks

Answer ALL Questions

PART - A (5 x 20 = 100 Marks)

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| 1. | (a) | Explain role of interrupt signals. | CO1- U | (20) |
|  |  | Or |  |  |
|  | (b) | Explain clocks & Timer circuits in measurements.  | CO1- U | (20) |
|  |  |  |  |  |
| 2. | (a) | Explain how system calls related to signal handling. | CO2- U | (20) |
|  |  | Or |  |  |
|  | (b) | Explain system calls functions in the open source kernel.  | CO2- U | (20) |
|  |  |  |  |  |
| 3. | (a) | Explain file locking. | CO3- U | (20) |
|  |  | Or |  |  |
|  | (b) | Modify the existing open source kernel in terms of functionality by using advanced technique that can be implemented in open source software. | CO3- App | (20) |
|  |  |  |  |  |
| 4. | (a) | Explain in detail [Procfs, Sysfs, and Similar Kernel Interfaces](http://people.ee.ethz.ch/~arkeller/linux/kernel_user_space_howto.html#toc2).  | CO4- Ana | (20) |
|  |  | Or |  |  |
|  | (b) | Discuss in detail Spanning tree protocol. | CO4- Ana | (20) |
|  |  |  |  |  |
| 5. | (a) | Explain in detail Routing concept. | CO5- U | (20) |
|  |  | Or |  |  |
|  | (b) | Explain in detail policy routing. | CO5- U | (20) |
|  |  |  |  |  |