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**E Reg. No. :**

**Question Paper Code: 51P33**

M.E. DEGREE EXAMINATION, NOV 2017

First Semester

Computer Science and Engineering

15PCS103- ADVANCED OPERATING SYSTEMS

(Regulation 2015)

Duration: Three hours Maximum: 100 Marks

Answer ALL Questions

PART - A (5 x 20 = 100 Marks)

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| --- | --- | --- | --- | --- |
| 1. | (a) | Discuss critical section problem in detail. | CO1- U | (20) |
|  |  | Or |  |  |
|  | (b) | Explain in detail about deadlock detection techniques. | CO1- U | (20) |
|  |  |  |  |  |
| 2. | (a) | Explain in detail about issues in distributed operating system. | CO2- U | (20) |
|  |  | Or |  |  |
|  | (b) | Explain in detail about distributed deadlock detection algorithm. | CO2- U | (20) |
|  |  |  |  |  |
| 3. | (a) | Discuss in detail about distributed file systems. | CO3- U | (20) |
|  |  | Or |  |  |
|  | (b) | Describe synchronous check pointing algorithm. | CO3- U | (20) |
|  |  |  |  |  |
| 4. | (a) | Explain in detail about basic models of real time systems. | CO4- U | (20) |
|  |  | Or |  |  |
|  | (b) | Describe Cocoa Touch Layer. | CO4- U | (20) |
|  |  |  |  |  |
| 5. | (a) | Discuss in detail about input output management in Linux system. | CO5- Ana | (20) |
|  |  | Or |  |  |
|  | (b) | Explain Inter process Communication and suggest solutions for  the issues when it will work in web applications. | CO5- Ana | (20) |
|  |  |  |  |  |