

**Code No: 155AB****JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY HYDERABAD****B. Tech III Year I Semester Examinations, March - 2021****ADVANCED OPERATING SYSTEMS****(Common to CSE, IT)****Time: 3 Hours****Max. Marks: 75**

**Answer any five questions**  
**All questions carry equal marks**

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- 1.a) List Characteristics of distributed operating system..
- b) Compare message communication model Vs remote procedure call. [7+8]
2. Discuss vector clocks and compare with logical clocks. [15]
3. Explain Lamport's algorithm for ensure mutual exclusion in distributed systems. [15]
4. Explain about Raymonds Heuristic algorithm. [15]
5. Write edge chasing and global state detection algorithms for deadlock detection in distributed operating system. [15]
6. Describe about the Hierarchical deadlock detection algorithm. [15]
7. Write the design issues in implementing of multi processor system and explain its architecture. [15]
8. Explain sender initiated load distributing algorithm in detail. [15]

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