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M.Tech.(IT)E1 (2015 & Onwards)/(CSE Engg.)EI-I (2015 to 2017) (Sem.-2)

## ADVANCED OPERATING SYSTEM

Subject Code: MTCS-205 M.Code: 72889

Time: 3 Hrs. Max. Marks: 100

## INSTRUCTIONS TO CANDIDATES:

- 1. Attempt any FIVE questions out of EIGHT questions.
- 2. Each question carries TWENTY marks.
- a. Explain the basic concepts of distributed Mutual Exclusion.
  - Write a short note on SUN Network File System.
- 2. What are deadlocks? How deadlock handling in distributed environment is different from conventional operating System?
- Write a short note on following:
  - a Lamport's Algorithm
  - b Distributed shared memory
- a. Explain the implementation of RPC in a distributed system.
  - b. Explain various features of a good distributed file system.
- Define following :
  - a. Markov Process
  - Voting Protocols
- a. Define failures in operating system. Explain the classification of failures.
  - What are fault tolerant issues? Discuss Nonblocking commit protocol.
- a. Classify the characteristics of Multiprocessor Systems.
  - Discuss the design and implementation issues of Multiprocessor Systems.
- a. Compare real time systems with traditional systems in terms of Task assignment and Scheduling.
  - Write a short note on Embedded Applications.

NOTE: Disclosure of Identity by writing Mobile No. or Making of passing request on any page of Answer Sheet will lead to UMC against the Student.

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