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**M.Tech (CSE Engg.) Big Data (Campus) (Sem.-1)****DISTRIBUTED OPERATING SYSTEM****Subject Code : CSB-208****M.Code : 51086****Time : 3 Hrs.****Max. Marks : 50****INSTRUCTIONS TO CANDIDATES :**

1. Attempt any FIVE questions out of EIGHT questions.
2. Each question carries TEN marks.

- Q1. Explain in detail the architectural and fundamental models of Distributed System.
- Q2. What is Inter Process Communication and process synchronization? Explain various methods for IPCs.
- Q3. Write a note on deadlock prevention and avoidance.
- Q4. Define buffer. Discuss buffer pools. How are they created, allocated and returned?
- Q5. What is distributed file system? Explain its characteristics and implementation issues.
- Q6. Discuss the case study of file management in UNIX.
- Q7. Differentiate between physical and logical locks. Compare process and global states.
- Q8. What are various processor allocation algorithms? Explain.

**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.**