

Q.P. Code :13890

[Time: Three Hours]

[Marks:80]

Please check whether you have got the right question paper.

- N.B:
1. Question.No.1 is compulsory.
 2. Attempt any 3 questions from the remaining 5 questions.
 3. Draw neat diagrams wherever necessary.

- Q 1 a) What are the issues in load distributions? 5
b) What are the design issues of Network Operating Systems (NOS)? 5
c) What is local clock? With the help of example explain limitation of logical clock. 5
d) What are the distributed deadlock handling strategies? Explain. 5
- Q 2 a) Describe two phase commit protocol of fault tolerance. 10
b) Explain Distributed Database System. What is the serializability condition in DDBS? 10
- Q 3 a) Write a details notes on cloud OS. 10
b) Define Real Time System. Explain types of real time task with example. 10
- Q 4 a) Write the Ho-Ramamurthy's centralize deadlock detection algorithm. 10
b) Explain priority inversion in RTOS. 10
- Q 5 a) Write classification of agreement problems in Distributed system. 10
b) Explain Readers-writers synchronization problem in distributed operating system. 10
- Q 6 a) What are the ways of implementing backward error recovery? Explain in detail. 10
b) Explain Rate Monotonic scheduling algorithm in RTOS. 10