

Exam.Code:0930
Sub. Code: 6248

1058

B.E. (Electronics and Communication Engineering)

Sixth Semester

IT-650: Distributed Systems

(May- 2017)

Time allowed: 3 Hours

Max. Marks: 50

NOTE: Attempt five questions in all, selecting atleast two questions from each Unit.

x-x-x

UNIT – I

- I. Explain with diagrams different types of Operating System structures? Give example for each type. (10)
- II. a) Write short note on micro kernel based client server approach?
b) Compare and contrast the techniques of caching disk blocks locally, on a client system and remotely on a server? (5,5)
- III. a) Why is Deadlock detection much more expensive in a distributed environment than it is in a centralized environment?
b) How deadlock prevention and avoidance is done in Distributed environment? (5,5)
- IV. a) Explain Failure Detection and Recovery in Distributed environment?
b) Describe Ring algorithm for electing new coordinator in case of coordinator failure. (5,5)

UNIT – II

- V. a) What are the main differences between capability and access list?
b) A password may become known to other users in a variety of ways. Is there a simple method for detecting that such an event has occurred? Explain your answer? (5,5)
- VI. a) What are the benefits of a DFS when compared to a file system in a centralized system?
b) Under what circumstances would a client prefer a location transparent Location independent DFS? Discuss? (5,5)

P.T.O.

Sub. Code: 6248

(2)

- VII. Differentiate between Sun NFS and NTFS? (10)
- VIII. Write short notes on: Object Request Broker Architecture and Microsoft DCOM model. (5,5)

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