

ROLL NO

2005 ANDHRA UNIVERSITY
IV B.TECH I SEMESTER DEGREE EXAMINATION
OPERATING SYSTEM
(INFORMATION TECHNOLOGY)

NOV/DEC 2005

TIME : 3 HOUR
MARK : 70

FIRST QUESTION IS COMPULSORY

ANSWER ANY FOUR FROM THE REMAINING QUESTIONS

ALL QUESTIONS CARRY EQUAL MARKS

ANSWER ALL PARTS OF ANY QUESTION AT ONE PLACE

1. Answer the following

- (a) Trap and interrupts
- (b) Sockets
- (c) Location Transparency
- (d) Mutual exclusion
- (e) SONET
- (f) RUTEX
- (g) NFS

2. (a) What is distributed system? Explain with examples.

(b) Narrate the advantages and disadvantages of distributed and centralized systems.

3. (a) Why Omega Network is better than network with cross bar switching.

(b) How hyper cube topology can be extended?

4. (a) Explain ATM reference model.

(b) Write about ATM Switching.

5. Explain Message-passing primitives in client-server model.

6. (a) Describe RPC operation.

(b) Briefly explain ISIS group communication system.

7. (a) What are logical and physical clocks?

(b) How a distributed algorithm works for mutual exclusion?

8. What are design issues for processor allocation algorithms?