

18. (a) Explain deadlock prevention and detection.

Or

- (b) Explain the advantages of threads.

19. (a) Explain the advantages of replication.

Or

- (b) Brief up nested transactions with its advantages.

20. (a) Explain cryptography in detail.

Or

- (b) Discuss user login authentication.
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Reg. No. :

Code No. : 8470

Sub. Code : C 1 C 3

M.Sc. (CBCS) DEGREE EXAMINATION,
NOVEMBER 2011.

First Semester

Computer Science

DISTRIBUTED OPERATING SYSTEMS

(For those who joined in July 2008 and afterwards)

Time : Three hours

Maximum : 75 marks

PART A — (10 × 1 = 10 marks)

Answer ALL questions.

1. What is time sharing?
2. Write any two DCE components.
3. What is buffering?
4. What are the issues in IPC message passing?
5. What is Token?
6. What is process migration?

7. What is file caching?
8. What is locking?
9. What is Virus?
10. What is the use of capability?

PART B — (5 × 5 = 25 marks)

Answer ALL questions, choosing either (a) or (b).

11. (a) Write a note on Minicomputer model.

Or
(b) Write short note on security.
12. (a) Write short notes on good message passing system.

Or
(b) Explain transparency of RPC.
13. (a) Write a short note on clock-synchronization.

Or
(b) Write short notes on message-forwarding mechanisms.

14. (a) Write the purpose of using files.

Or

- (b) What are the transaction operations involved in file service? Explain briefly.
15. (a) Explain protection methods used against unauthorized access.

Or

- (b) What is called active attacks? Explain.

PART C — (5 × 8 = 40 marks)

Answer ALL questions, choosing either (a) or (b).

16. (a) Explain Evolution of DCS.

Or
(b) Explain distributed computing environment.
17. (a) Brief up group communication.

Or
(b) Explain the following :
 - (i) call messages
 - (ii) reply messages.