

FACULTY OF SCIENCE

M.Sc. (I Semester) (Computer Science) Examination, April/May 2005

Paper—1.2

MODERN OPERATING SYSTEMS

Time : Three Hours]

[Maximum Marks : 100

SECTION—A

(Marks : $8 \times 5 = 40$)

Answer ALL the questions.

1. Discuss briefly about issues in distributed system.
2. What are necessary conditions for deadlocks ?
3. Explain briefly the contiguous allocation.
4. Explain thread scheduling.
5. Explain goals of protection.
6. What is fault tolerance ? Explain briefly.
7. Describe the fields used in Crontab files.
8. Give commands for monitoring and scheduling process.

SECTION—B

(Marks : $4 \times 15 = 60$)

Answer ALL the questions.

9. (a) Explain :—
 - (i) Multiple processor scheduling
 - (ii) Real time scheduling.

OR

- (b) Explain Banker's algorithm with an example.

10. (a) What is segmentation ? Explain how segmentation hardware can be implemented.

OR

(b) Discuss various disk scheduling algorithms with examples.

11. (a) (i) Explain briefly the revocation of access rights.

(ii) Explain file manipulation in UNIX.

OR

(b) Explain how process management is achieved in Linux.

12. (a) Explain the factors effecting performance of a system. Give various commands for monitoring and managing above factors.

OR

(b) Explain the different network management tools.