Register Number :

Name of the Candidate :

6 9 1 8

M.C.A. DEGREE EXAMINATION, 2009

(SECOND SEMESTER)

(PAPER - X)

231. DISTRIBUTED OPERATING SYSTEM

(New Regulations)

December] [Time : 3 Hours

Maximum : 100 Marks

SECTION - A (8 ×5 = 40)

Answer any EIGHT questions.
All questions carry equal marks.

1. What is distributed operating system ? Explain its features.

2. List and define the desirable features of a good message passing system.

3. What is a deadlock ? What are the four necessary conditions for a deadlock to occur ?

Turn Over

4. What do you mean by thread ? What are the three commonly used ways to organize the threads ?

5. Describe the different types of authentication needed in a distributed system.

6. Differentiate between passive and active attacks. Which is more harmful and why ?

7. Write the features of UNIX file system.

8. Explain any two system calls for the UNIX file system.

9. Write a short note on sockets.

10. What do you mean by process tracing ? Explain.

SECTION - B (3 ×20 = 60)

Answer any THREE questions.
All questions carry equal marks.

11. Explain the major issues in designing a distributed operating system.

12. What is process migration ? Explain the features of a good process migration mechanism.

13. What is key distribution problem ? Discuss the three commonly used implementation approaches.

14. Write a short note on :

    (a) Pipes in UNIX.

    (b) Mounting and unmounting file system.

15. Discuss the interprocess communication in UNIX system.