

## **MSCCS 10 Operating System**

### **SET : 1**

#### **Section-A**

(Very Short Answer Questions)

1. (i) What is authentication?
- (ii) What is Bourne shell?
- (iii) What is Consistency?
- (iv) Define Granularity.
- (v) What is Integrity?
- (vi) What is Cipher Text?
- (vii) List out advantage of NFS.
- (viii) Define response time?
- (ix) What is the need of Distributed OS?
- (x) What is namespace?

#### **Section-B**

(Short Answer Questions)

2. What are various features of Distributed File system (DFS).
3. Illustrate and explain the architecture of Distributed Shared Memory.
4. Discuss AWK with its Operators.
5. What is the need of security and protection of data in distributed environment?
6. What is greedy Algorithm? How it is different than Dynamic Algorithm.
7. How to find minimal spanning tree. Discuss some algorithms with its complexity.
8. Explain the following:
  - a. SUN File system
  - b. Kerberos
9. Explain Access Matrix Model.

#### **Section-C**

(Long Answer Questions)

10. What are different types of pattern in AWK.
11. What is distributed OS. Explain various features of Distributed OS
12. Compare Token based and Non token based algorithm for mutual exclusion.
13. What do you mean by mutual exclusion? Discuss the algorithm for distributed mutual exclusion.

## **MSCCS 10 Operating System**

### **SET : 2**

#### **Section-A**

(Very Short Answer Questions)

1. (i) What is Atomic Transaction?
- (ii) What is Aliases?
- (iii) What is WFG?
- (iv) What do you mean by scalability?
- (v) Define mutable files?
- (vi) What is Hash function?
- (viii) Define Encryption.
- (viii) What is DNS?
- (ix) List advantage of Distributed system over Centralized system.
- (x) What do you mean by mounting?

#### **Section-B**

(Short Answer Questions)

2. What is Digital Signature? Explain its working
3. What is Critical Section Problem? Give the necessary condition of it.
4. What is shell? What is the relationship between shell and kernel?
5. What is Semaphore? Explain different types of Semaphore with example.
6. What are the issue regarding deadlock detection and resolution
7. Explain Write through Algorithm.
8. Discuss the architecture of Distributed File system in brief.
9. What is coherence? Explain various Coherence Protocols.

#### **Section-C**

(Long Answer Questions)

10. Explain arrays in AWK with the help of examples.
11. Discuss the issue related to Distributed OS.
12. What are the communication primitives in Distributed System
13. What is distributed deadlock? Discuss system model for deadlocks