

Operating system

Session 2013-16

1. A. choose the correct answer from the followings:

1. Which one is a single user operating system?
2. Kernel of an Operating system is
3. Unix is which type of operating system
4. Which is not the condition of deadlock?
5. Files are stored in
6. Banker's algorithm is related to
7. Which of the following is an essential file of a MS-DOS boot disk?

B. State whether the following statements are True or False

- i. Another term for system Call is supervisory call
- ii. DMA offer multi-user & multiprogramming features to the O/S
- iii. a process can have multiple threads but a thread is associated with only one process.
- iv. In paging technique the numbers of data chunks are of the same size.
- v. A file can contain only one records.
- vi. Window XP and Unix are multiuser Operating system.
- vii. Semaphores is an abstraction of ideas in mutual exclusion

2. What do you mean by an Operating System? Describe about the various functions of an operating system.

3. What do you mean by process? Discuss various process states and their meanings.

4. What is meant by Preemptive Scheduling? How does it affect the system performance vis-à-vis non-preemptive scheduling?

5. Discuss the Round Scheduling policy with its merits and demerits. What is the impact of the quantum of time slice on the system performance?

6. What is Deadlock? How does deadlock avoidance differ from deadlock prevention?

7. What is paging? How paging is different from segmentation. Explain it.

8. Discuss the relative merits of each of the following virtual memory mapping techniques:

- a. Direct mapping
- b. Associative mapping

9. Differentiate any two of the followings:

- A. Scheduling
- b. Swapping
- c. Thrashing
- d. Swap Space Management
- e. Disk Management

Memories