

CS6401-Operating System

Introduction – System Calls

1) Which of the following has the highest hierarchy (fastest) in storage?

- A) Main memory
- B) Cache
- C) Registers
- D) Electronic disks

2) What is the mode bit for kernel mode?

A) 1

B) 0

3) In which mode are the privileged instructions executed?

A) Kernel

B) User

4) How many types of hardware protection are present?

A) 2

B) 3

C) 4

D) 5

5) Which of the scheduling algorithms optimizes average waiting time?

A) SJF

B) Round Robin

C) Priority Scheduling

4) FCFS

6) Which is the rate at which data flows between drive and computer?

- A) Transfer Rate
- B) Random access rate
- C) Rotational latency

7) Which is generally the lowest level in all systems?

- A) Kernel
- B) Hardware
- C) Application Software
- D) Operating System

8) Which queue consists of processes waiting for an I/O device?

A) Device Queue

B) Job Queue

C) Ready Queue

9) What is the problem encountered in FCFS?

- A) Starvation
- B) Convoy problem
- C) Deadlock

10) Which of the following is not a **communication** system call?

- A) Pipe
- B) mmap
- C) shm_open
- D) chmod

ANSWERS

1. (c)Registers
2. (b)0
3. (a)Kernel
4. (c)4
5. (a)SJF
6. (a)Transfer rate
7. (b)Hardware
8. (a)Device queue
9. (b)Convoy problem
10. (d)chmod