**SET -B**

1. A system has 12 magnetic tape drives and 3 processes: P0, P1, and P2. Process P0 requires 10 tape drives, P1 requires 4 and P2 requires 9 tape drives.

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| --- | --- | --- |
| Process | Allocation | Max |
| P0 | 5 | 10 |
| P1 | 2 | 4 |
| P2 | 2 | 9 |

Which of the following sequence is a safe sequence?  
a) P0, P1, P2  
b) P1, P2, P0  
c) P2, P0, P1  
d) P1, P0, P2

1. If no cycle exists in the resource allocation graph \_\_\_\_\_\_\_\_\_\_\_\_  
   a) then the system will not be in a safe state  
   b) then the system will be in a safe state  
   c) all of the mentioned  
   d) none of the mentioned
2. Consider a disk queue with requests for I/O to blocks on cylinders.  
   98 183 37 122 14 124 65 67  
   Considering **SSTF** (shortest seek time first) scheduling, the total number of head movements is, if the disk head is initially at 53 is?  
   a) 224  
   b) 236  
   c) 245  
   d) 240
3. Consider a disk queue with requests for I/O to blocks on cylinders. 98 183 37 122 14 124 65 67. Considering FCFS (first cum first served) scheduling, the total number of head movements is, if the disk head is initially at 53 is?
4. 600 b.645 c. 640 d.620
5. In example 98, 183, 40, 122, 10, 124, 65

of \_\_\_\_\_\_ algorithm, the head moves from 53, serves all requests in right direction till it reaches the other end. Then it jumps to the remaining requests and serve them in right direction only.

1. C-LOOK b. C-SCAN c. SCAN d. LOOK