b. Consider the following snapshot of a system:

| | Allocation | Max | Available |
|---|---|---|---|
| | ABC | ABC | ABC |
| $P_0$ | 002 | 004 | 102 |
| $P_1$ | 100 | 201 | |
| $P_2$ | 135 | 137 | |
| $P_3$ | 632 | 842 | |
| $P_4$ | 143 | 157 | |

Answer the following questions using Banker's algorithm:
Is the system in a "safe state"?
If a request from process $P_2$ arrives for (002) can the request be granted immediately? **(10 Marks)**

c. What are the methods used to handle the dead locks? Explain how circular wait condition can be prevented from occurring. **(05 Marks)**

## PART – B

5 a. What are the drawbacks of contiguous memory allocation? Given five memory partitions of 100KB, 500KB, 200KB, 300KB and 600KB (in order), how would each of the first fit, best fit and worst fit algorithms place processes of 212 KB, 417 KB, 112KB and 426 KB (in order)? Which algorithm makes the most efficient use of memory? **(06 Marks)**

b. Consider a paging system with the page table stored in memory.
i) If a memory reference takes 200 nano seconds, how long does a paged memory reference take?
ii) If we add associative registers and 75 percentage of all page table references are found in the associative registers, what is the effective memory access time? (Assume that finding a page table entry in the associative memory/registers takes zero time, if the entry is found). **(04 Marks)**

c. Consider the following page reference string: 7 0 1 2 0 3 0 4 2 3 0 3 2 1 2 0 1 7 0 1 for a memory with three frames. How many page faults would occur for LRU, FIFO and optimal page replacement algorithms? Which is the most efficient among them? **(10 Marks)**

6 a. Explain the various file operations supported by the operating system, also differentiate mandatory lock and advisory lock mechanisms used on files by the operating system. **(05 Marks)**

b. Describe the methods used for implementing the directories. **(08 Marks)**

c. Explain various file protection mechanisms. **(07 Marks)**

7 a. Suppose that the disk drive has 5000 cylinders numbered from 0 to 4999. The drive is currently serving a request at cylinder 143, and the previous request was at cylinder 125. The queue of pending requests in FIFO order is 86, 1470, 913, 1774, 948, 1509, 1022, 1750, 130. Starting from the current (location) head position, What is the total distance (in cylinders) that the disk arm moves to satisfy all the pending requests, for each of the following disk-scheduling algorithms?
i) FCFS; ii) SSTF; iii) SCAN; iv) LOCK; v) C-SCAN. **(15 Marks)**

b. Discuss the strengths and weaknesses of implementing an access matrix using access lists that are associated with objects. **(05 Marks)**

8 Write short notes on:
a. Portability issues in LINUX
b. Performance of demand paging
c. Multithreading models
d. Network structure in LINUX. **(20 Marks)**

* * * * *

# Vtu 5th Sem Question Papers

Sharma R P.

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