

**Mumbai Education Trust's**  
**INSTITUTE OF ENGINEERING, BKC, NASHIK.**  
**DEPARTMENT OF COMPUTER ENGINEERING**

Subject : SPOS

ASSIGNMENT NO – 06

Unit : VI

1. Explain the **Memory management techniques** with its types?
2. Explain techniques of managing memory using **first fit, best fit and worst fit** with suitable example?
3. Explain **Swapping and Virtual Memory** system with example?
4. Describe **Demand paging** with its advantages.
5. List different **page replacement policies** and explain FIFO, LRU & OPT in details with example.
6. State **Paging**. & explain hardware support required for paging.
7. Explain the concept of **Segmentation** and its advantages.
8. Write short note on **Thrashing** in memory management.
9. Define **Reference string , page frame, hit ratio and page fault**.
10. Consider the page reference string 2, 3, 2, 1, 5, 2, 4, 5, 3, 2, 5, 2. Calculate page fault & hit ratio for : FIFO, LRU & OPT. (frame size-3).
11. Consider the page reference string 1, 2, 3, 4, 2, 3, 4, 5, 6, 7, 3, 2, 4. Calculate page fault & hit ratio for : FIFO, LRU & OPT. (frame size-3).
12. Consider the page reference string 1, 2, 3, 4, 2, 1, 5, 6, 1, 2, 3, 7, 6, 3, 2, 1, 3, 6.  
Calculate page fault & hit ratio for : FIFO, LRU. (frame size-4)

\*\*\*\*\* **Best of Luck** \*\*\*\*\*