UNIT – 3
2 marks questions

1. What is the primary purpose of memory management in an operating system?
2. Define logical address and physical address.
3. Explain the difference between internal and external fragmentation.
4. What is paging, and how does it prevent external fragmentation?
5. Describe the purpose of a page table.
6. What is thrashing in memory management?
7. Explain the concept of virtual memory.
8. Name two advantages of using segmentation over paging.
9. What is a Translation Lookaside Buffer (TLB), and why is it used?
10. Define demand paging.
11. What is the role of the Memory Management Unit (MMU)?
12. Describe the First-Fit and Best-Fit memory allocation strategies.
13. What is meant by the term "page fault"?
14. Explain the Least Recently Used (LRU) page replacement algorithm.
15. What is the working set model in memory management?
16. Differentiate between fixed partitioning and dynamic partitioning.
17. Why is a page replacement algorithm necessary in virtual memory?
18. Explain the concept of a frame in memory management.
19. What is the purpose of the page table base register (PTBR)?
20. Define effective access time (EAT) in a paged memory system.