

(d) Random 4. What is the difference between a soft page fault and a hard page fault? (a) A soft page fault is caused by a missing page in memory, while a hard page fault is caused by a non-existent page (b) A hard page fault is caused by a missing page in memory, while a soft page fault is caused by a non-existent page (c) There is no difference between a soft page fault and a hard page fault (d) A soft page fault is caused by a page that is currently being written to disk, while a hard page fault is caused by a page that has been removed from disk 5. Which of the following is NOT a page size? (a) 4KB (b) 8KB (c) 16KB (d) 64KB \*\*Section B: Scheduling (5 Marks)\*\* \*\*Instructions:\*\* Answer the following questions in detail. 1. Describe the following CPU scheduling algorithms: - First-Come First-Served (FCFS) - Shortest Job First (SJF) - Round Robin

<ul><li>4. Describe the role of a dispatcher in an operating system.</li><li>5. Explain the difference between preemptive and non-preemptive scheduling.</li></ul>
5. Explain the difference between preemptive and non-preemptive scheduling.

2. Explain the concept of thread scheduling and its benefits.