Final Exam Help

Dear students, Your final exam: TR 11:00 AM-12:15 PM T 05/04 10:15 AM-12:00 PM. You need to login to blackboard and enter zoom classroom with video on. Then you may open the exam. If you are not physically present with video, you will receive a 0 for the test.

1. Primary and Secondary Memory characteristics. Physical vs logical and virtual address.
2. Swapping, thrashing, hit, miss, paging, TLB
3. access time, rotation speed, transfer time, constant angular velocity, etc.
4. scheme for multiple-disk database design.
5. An I/O module, I/O Channel vs I/) controller. I/O command, I/O control signal
6. What’s DMA? DMA cycle stealing?
7. API, JCL, ABI
8. Short term, midium-term and long-term scheduler
9. Operand, opcode, IR, IBR, MAR, MBR, PC
10. Different types of machine instructions such as branch, memory….
11. Branch taken, not taken. Branch history
12. The advantage and disadvantages of different type of addressing
13. CPU vs GPU. Cores, threads.
14. Many questions on control unit
15. Several questions on ILP and loop unrolling.
16. Several questions on Pipelining Hazards and data hazards. Specific questions about program assigned to you.
17. Questions on Operating System support