

Study Questions (Chapter 01 – Part 1)

1. Define the Instruction Set Architecture term.
2. Define the computer organization term.
3. Does computer architecture consider the specific design or implementation of a computer?
4. Does computer organization consider the specific design or implementation of a computer?
5. What is the main difference between computer architecture and computer organization?
6. What is microarchitecture?
7. What does the term CPU stand for?
8. What does the term SRAM stand for?
9. What does the term DRAM stand for?
10. Mention the two main characteristics that specify computer registers.
11. What is the primary difference between computer registers and main computer memory?
12. What is the difference between a dedicated and general-purpose computer?
13. Is an aircraft's automatic pilot an example of a dedicated or a general-purpose computer?
14. What is the width of a clock pulse if the clock frequency = 100KHz?
15. What is the width of a clock pulse if the clock frequency = 5KHz?
16. What is the main difference between synchronous and asynchronous events?