

## *Computer Organization*

(Solutions to Review Questions and Problems)

### Review Questions

- QS-1.** The three subsystems are the central processing unit (CPU), the main memory, and the input/output.
- QS-2.** The CPU has an arithmetic logic unit (ALU), a control unit, and various kinds of registers.
- QS-3.** The ALU performs arithmetic and logical operations.
- QS-4.** The control unit is responsible for controlling the operations of all other subsystems.
- QS-5.** The main memory stores data and programs when the program is being executed.
- QS-6.** RAM is random access memory and can be read from and written to by the user. ROM is read-only memory. The contents of ROM are written by the manufacturer and cannot be overwritten by the user. SRAM is static RAM that uses flip-flop gates to hold data. DRAM is dynamic RAM that uses capacitors to hold the data. PROM is programmable read-only memory and can be programmed by the user using special equipment. EPROM is erasable PROM and can be erased by the user using a special device that uses UV light. EEPROM is electronically erasable PROM that can be reprogrammed while it is still installed in the computer.
- QS-7.** The cache memory provides the CPU with fast access to part of data stored in main memory.
- QS-8.** A magnetic disk consists of one or more disks with a magnetic coating and one read/write head for each disk surface.
- QS-9.** The surface of a magnetic disk is divided into circular rings called tracks. Each track is divided into sections called sectors. The width of a magnetic tape is divided into 9 tracks. The length of the tape may be divided into blocks.
- QS-10.** Data can be stored on a CD-R and a CD-RW by the user. The advantage of a CD-RW is that it can be overwritten with new data. A DVD uses much

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**O García**



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**Solutions manual for computer systems design and architecture** Harry F. Jordan, Vincent P. Heuring, Miles Murdocca, 1996-10-01     Study of Computers and Components for Solution of Various Types of Mathematical Problems  
Edwin Zenith Gabriel, 1952

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