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Ecodesign of electronic devices

UNIT 8: Microcontroller systems part 1

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1.1 Quiz

- PLEASE, CHOOSE THE CORRECT ANSWER:
 1. Is microcontroller a computer? (NO)
 2. Can we use codesign processes in microcontroller systems? (YES)
 3. Does microcontroller contain peripheral units? (YES)
 4. Does microcontroller contain CPU? (YES)
 5. Is DSP intended only for signal processing? (NO)
 6. Is RISC structure more complex than CISC structure? (NO)
 7. Does Harvard architecture have a separate bus for memory and instructions? (YES)
 8. Is DRAM faster than SRAM? (NO)
 9. Is precision of AD converter given with a number of bits? (YES)
 10. USART is 'Half-duplex' communication? (NO)



1.2 Assignment

Describe the difference between RISC and CISC microcontroller structure. Which dynamic memory type do personal computers use for simultaneous data storing? Why do they use this memory type?

