KNOWLEDGE PROBE 1: MICRO & EMBEDDED CONTROLLERS
Part 1: Microcontroller Technology Update
How Micros Are Used

Learning Objectives

- Identify and distinguish between microprocessors, microcomputers, embedded controllers, and cores.
- Describe the importance and pervasiveness of microcontrollers.

1. What is the name given to a complete computer on a chip?
   a. Embedded controller
   b. Microcomputer
   c. Microprocessor
   d. Processors

2. Which of the following is the term that means a CPU on a chip?
   a. Embedded controller
   b. MCU
   c. Microcomputer
   d. Microprocessor

3. Which of the following does NOT have an internal embedded controller?
   a. Automobile
   b. Cell phone
   c. iPod
   d. TV set
   e. None of the above

4. An embedded controller has I/O and memory on-chip.
   a. True
   b. False

5. Which of the following is NOT a general embedded controller application?
   a. DSP
   b. General digital logic operations
   c. Monitor and control functions
   d. RF signal amplification

6. A core is a(n)
   a. DSP chip
   b. Embedded controller integrated on a larger system chip
   c. Microprocessor IC
   d. Type of memory

7. What makes a generic embedded controller dedicated to the application?
   a. Software
   b. Specific I/O
   c. Type of processor
   d. Use of both RAM and ROM