

## **MICRO AND EMBEDDED CONTROLLERS**

### **Part 1: Microcontroller Technology Update**

1. What is a microprocessor?
2. What is a microcomputer?
3. Why are two cores used in new processors?
4. What are the three basic functions of microcontrollers?
5. Compare the monitoring and control functions.
6. What is digital signal processing (DSP)?
7. What are the main circuits in a MPU?



8. What is the most common form of micro architecture?

9. Describe the stored program concept.

10. Describe Harvard architecture.

11. What is pipelining?

12. What advantage does RISC offer compared to CISC?

13. What is flash memory?

14. Compare NOR flash and NAND flash.



15. What is cache memory?

16. Why are serial interfaces preferred over parallel interfaces?

17. What is an I/O interface?