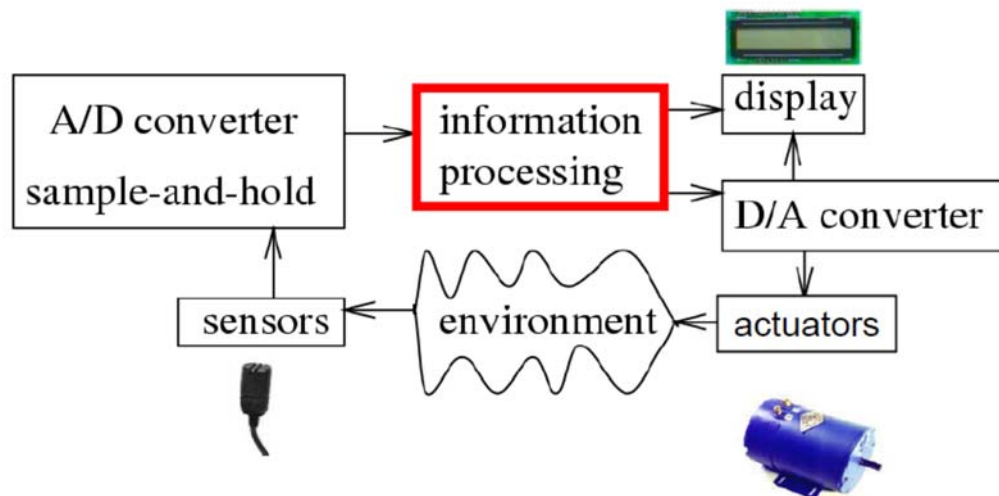


Revision Sheets #01

1. Which of the following is true about embedded system definition?
 - A) An embedded system is one that has computer hardware with software don't embed in it as one of its important components
 - B) An embedded system is one that hasn't included computer hardware with software in its important components
 - C) An embedded system is one that has computer hardware with software embedded in it as one of its important components
 - D) None of the previous.
2. Which of the following is(are) considered as Embedded systems?
 - A) Phones and Tablets
 - B) Network Devices
 - C) Medical Devices
 - D) All of the previous.
3. Which one of the following is true about the following block diagram?



- A) Simplified block diagram of embedded systems
 - B) Embedded systems performances
 - C) Embedded systems applications
 - D) None of the previous.
4. Based on performance and functional requirements, Embedded systems are classified as:
 - A) Real Time and Stand Alone Embedded Systems
 - B) Networked Embedded Systems
 - C) Both A and B
 - D) None of the previous.

Ans: 1.C, 2.D, 3.A, 4.C

5. RTOS stands for?
- A) Reliable Tightly Operating system
 - B) Reactive Tightly Operating system
 - C) Real Time Output system
 - D) None of the previous.
6. Which of the following are hardware components of an embedded system?
- A) Analog Components
 - B) Digital Components
 - C) Converters – A2D, D2A
 - D) All the above
7. Which of the following are the class of microcontrollers performance based embedded systems?
- A) Small scale
 - B) Medium scale
 - C) Sophisticated scale
 - D) All the above
8. Which of the following is true about small scale embedded system?
- A) These type are designed with a single 8 or 16-bit microcontroller
 - B) These type are designed with a single 16 or 32-bit microcontroller
 - C) These type are designed with a single 32 or 64-bit microcontroller
 - D) None of the previous.
9. In which of the following embedded systems devices communicates with servers?
- A) Real time
 - B) Stand alone
 - C) Networked embedded systems
 - D) None of the previous
10. Which of the following are the examples of networked embedded systems?
- A) Automated teller machines ATM
 - B) Micro-oven
 - C) Washing machine
 - D) None of the previous
11. Which of the following is not related to the advantages of microcontroller application?
- A) Reduction in size;
 - B) Shorter development time;
 - C) Higher power consumptions
 - D) None of the previous
12. Which of the following is true about microcontroller?
- A) It's a single IC chip containing an analog converter, memory, and programmable input/output peripherals
 - B) It's a different IC chip containing a processor and memory.
 - C) It's a single IC chip containing a processor, memory, and programmable input/output peripherals
 - D) None of the previous

Ans: 5.D, 6.D, 7.D, 8.A,9.C, 10.A,11,C,12.C

13. What is the file extension that is loaded in a microcontroller for executing any instruction?
- a) .doc
 - b) .c
 - c) .txt
 - d) None of the previous
14. What is the most appropriate criterion for choosing a suitable microcontroller for your project or applications?
- a) Numbers of I/O Ports and peripherals like (Timer, ADC, PWM)
 - b) Serial communication modules
 - c) Processor speed and memory requirements
 - d) all of the above
15. Why microcontrollers are not called general purpose computers?
- a) because they have built in RAM and ROM
 - b) because they design to perform dedicated tasks
 - c) because they are cheap
 - d) because they consume low power
16. Which of the following is (are) true about Microprocessor and Microcontroller respectively?
- I. It's a register based multi-purpose electronics device.
 - II. Depend mainly on its peripherals like program memory I/O ports, timer, ADC.
 - III. Used for few dedicated functions.
 - IV. Used in many applications.
- A) Microprocessor are I and II Microcontroller are I and III
 - B) Microprocessor are I and IV Microcontroller are II and III
 - C) Microprocessor are I and II Microcontroller are II and III
 - D) None of the previous
17. Which of the following are medical applications of embedded systems?
- a) CT
 - b) Implantable Medical Devices
 - c) ECG
 - d) All the above

Ans:13.D,14.D, 15.B,16.B,17.D