

ASSIGNMENT –I

Ques1. What does the term embedded system means?

Ques2. An embedded system is also called a dedicated system. Why?

Ques3. In choosing a microcontroller, how important is it to have multiple sources for that chip?

Ques4. In an embedded controller with on chip ROM why does the size of ROM matter?

Ques5. What do you understand by Real Time System? Comment briefly on RTOS.

Ques6. What is the main differences between

(a) Microprocessor and Microcontroller

(b) Embedded system and general purpose computer

Ques7. If 8051 is operating at 12MHz crystal, what is the maximum frequency of external signal that the microcontroller can count?

Ques8. What is PSW register and explain the concept of stack in 8051?

Ques9. What is design metric? Explain it briefly.

Ques10. Discuss the advantage and disadvantage of Harvard and Von Neumann architecture.

Ques11. Assume that bit P2.2 is used to control an outdoor light and P2.5 a light inside a building. WAP that how to turn ON outside light and turn OFF inside light.

Ques12. Explain the following

(1) L JMP

(2) ACALL

(3) DJNZ

(4) PUSH and POP

(5) Machine Cycle