

Viva Questions

1. What do you mean by Embedded System? Give examples.
2. Why are embedded Systems useful?
3. What is Embedded Controller?
4. What is Microcontroller?
5. List out the differences between Microcontroller and Microprocessor.
6. How are Microcontrollers more suitable than Microprocessor for Real Time Applications?
7. What are the General Features of Microcontroller?
8. Explain briefly the classification of Microcontroller.
9. Explain the general features of 8051 Microcontroller.
10. How many pin the 8051 has?
11. Differentiate between Program Memory and Data Memory.
12. What is the size of the Program and Data memory?
13. Write a note on internal RAM. What is the necessity of register banks?
14. What is the function of accumulator?
15. What are SFR's?
16. What is the program counter? What is its use?
17. What is the size of the PC?
18. What is a stack pointer (SP)?
19. What is the size of SP?
20. What is the PSW? And briefly describe the function of its fields.
21. What is the difference between PC and DPTR?
22. What is the difference between PC and SP?
23. What is ALE? Explain the functions of the ALE in 8051.
24. What are the disadvantages of the ceramic resonator?
25. Explain briefly the difference between the Von Neumann and the Harvard Architecture.
26. Describe in detail how the register banks are organized.
27. What are the bit addressable registers and what is the need?
28. What is the need for the general purpose RAM area?
29. What is Stack and the Stack Pointer.
30. Explain briefly how internal and external ROM gets accessed.
31. What are the different addressing modes supported by 8051 Microcontroller ?
32. Explain the Immediate Addressing Mode.
33. Explain the Register Addressing Mode.

Microcontroller Lab Viva Manual

S Marginson



Microcontroller Lab Viva Manual:

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