

ELECTRONICS - IV
III Year
Micro Controller

UNIT - I

Long Answer Questions:

1. Draw the overview block diagram and of 8051 μc (8051) and explain it?
2. Draw the pin diagram of 8051 μc and explain the port organization?
3. Explain in detail the memory organization of 8051 μc ?
4. a) Explain psw registers and flags.
b) Explain register banks of 8051 μc .
5. Explain the interrupts of 8051 μc ?
6. What are data types and directives - Explain?

Short Answer Questions:

7. Explain stack pointer?
8. Explain data pointer registers?
9. Explain TCON, PCON and SCON?
10. Explain serial communication (UART)?

UNIT - II

Long Answer Questions:

1. Explain addressing modes of 8051 μc in detail?
2. What are the instruction sets of 8051 μc ?
3. Explain jump and call construction?

Unit - III

Long Answer Questions:

1. Discuss 8255 (PPI) chip and mode system of 8255. Draw the interfacing diagram of 8255 with 8051 μc ?
2. Explain DAC (0808) (or) ($\mu\text{c}1408$) IC.
3. Explain ADC 0848 and interfacing with 8051 μc ?

4. Explain ADC 0804 and interfacing with 8051 μc ?
5. Explain serial communication modes and protocols?

Short Answer Questions:

1. Explain Rs 232 (ADC).
2. Write a short notes on Max 1112 (ADC).
3. Write a short notes on ADC.

UNIT – IV

Long Answer Questions:

1. Explain the stepper motor control and interfacing with 8051 μc ?
2. Discuss keyboard function and their interfacing with 8051 μc ?
3. Explain LCD application and interfacing with 8051 μc ?
4. Explain temperature measurement derive and its interfacing?