

SECTION-B

2. Draw the block diagram of 8251 and explain the function of each pin.
3. Explain the format and functions of DAD, CALL and RAL instructions of 8085.
4. Write an assembly language program to multiply to 8-bit unsigned numbers.
5. Describe the sequence of events that occurs when vectored interrupts occurs in 8085.
6. Differentiate between instruction cycle and execute cycle.

SECTION-C

7. Write an assembly language program to count continuously in hexadecimal from FFH to 00H in a system with 0.5 microsecond clock period. Use register C to set up a one millisecond delay between each count and display the numbers at one of the output ports.
8. Draw the circuit diagram to interface memory PROM 4K*8 starting from 4000H address to 8085.
9. Write short notes on the following :
 - (a) Architecture of 8086
 - (b) PROM programming