Or

6. (*a*) Explain the following instructions in 8051 : [6]

  (*i*)   MUL AB

  (*ii*) SWAP A

  (*iii*) MOV DPTR, #3000H

  (*b*) List the features of 8051 microcontroller. Draw and explain architecture of 8051. [7]

7. (*a*) How many interrupts are there in 8051 ? List them according to their priority. Explain the IP register structure. [7]

  (*b*) Explain any *two* operating modes of timer used in 8051. [7]

Or

8. (*a*) List and classify 8051 interrupts. [7]

  (*b*) Draw and explain formats of SBUF and IE. [6]