S.E. DIV A& B

Microprocessor Assignment 2

1. Explain operating modes of PIC 8259
2. Give formats of initialisation command words (ICW's) of 8259 PIC
3. Draw and explain the block diagram of 8255 Programmable Peripheral Interface (PPI) with control word formats
4. Explain the I/O mode control word format of 8255 PPI
5. Discuss control word format for Bit Set Reset (BSR) mode of 8255 PPI
6. Draw and explain the block diagram of 8257 DMA controller
7. Design 8086 based system for following specifications:
   a. 8086 in minimum mode with clock frequency 5MHZ
   b. 128 KB EPROM using 32KB
   c. 32KB RAM using 16KB
8. Explain EFLAGS registers of 80386 DX /
                          OR
   Explain flag register format of 80386 DX/
                          OR
   Explain VM, RF, IOPL and NT flags of 80386 microprocessor

9. Explain V86 mode of 80386 DX
                          OR
   Write short note on : Virtual 86 mode of 80386 DX
   Write short note on : Control registers of 80386 DX
10. Explain modes of operation of 80386 microprocessor
                          OR
    Differentiate Real mode , Protected Mode and Virtual Mode of 80386

11. Explain memory management of 80386 in detail

12. Explain with neat diagram , address translation mechanism implemented on 80386 DX