



**METHODIST**  
**COLLEGE OF ENGINEERING AND TECHNOLOGY**  
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**Assignment - 2**

**Short Answer Questions: (write any five questions)**

1. List the DMA Data transfer methods.
2. What is interrupt? Discuss its types.
3. Describe the steps when 8086 responds to an interrupt.
4. Draw the control word formats of the 8251 USART.
5. Explain the CWR format of the 8255 and write the control word to set PC3 in BSR mode.
6. What is necessity of the programmable interval timer?
7. List the features of programmable interval timer.
8. List the features of DMA controller 8257.
9. What is special about port C of the 8255?

**Long Answer Questions: (All are compulsory)**

1. Draw the architecture and explain the modes of operation of 8255 PPI.
2. Explain the modes of operation of 8255 PPI.
3. Describe the internal architecture of 8251 USART.
4. Draw and explain the functional block diagram of 8254 programmable interval timer.
5. Describe interrupt vector table of 8086.
6. Illustrates different modes of operations of 8254.
7. Draw and explain the control word format of IC 8251.
8. Describe the internal architecture of 8257 DMA controller.