EC6504-MICROPROCESSOR AND MICROCONTROLLER

UNIT-III
PART-A

1. What are the modes of operation of 8259 Interrupt Controller?
2. What are the advantages of Programmable Interval Timer/Counter IC? (May/Jun 2014)
3. List the features of Memory Mapped I/O. (May/Jun 2014)
4. What is bus stealing? (Nov/Dec 2013)
5. What is the function of STB and OBF signal in the 8255 when programmed for mode –1 operation?
6. What is the purpose of the IC 8257?
7. What are TC and MARK signal in a DMA controller?
8. Why CAS2-CAS0 lines on 8259 PIC are bi-directional?

PART-B

1. Explain with a block diagram the internal structure of 8255 PPI.
2. Explain the internal architecture of 8237 Direct Memory Access Controller. **(May/Jun 2014)**
3. List the major components of 8279 keyboard display interface and explain their functions. **(Nov/Dec 2013)**
4. (i) Bring about the features of 8251. (6) **(Nov/Dec 2013)**
(ii) Discuss how 8251 is used for serial data communication. (6)
(iii) Explain the advantages of using the USART chips in microprocessor based systems. (4)