

01451

B.TECH.-VIEP-ELECTRICAL ENGINEERING

Term-End Examination

December, 2013

**BIEE-015 : MICROPROCESSOR AND
APPLICATIONS**

Time : 3 hours

Maximum Marks : 70

Note : Attempt any seven questions. Assume the missing data if any.

1. Discuss the programming model of 8085 in detail 10
Also discuss various registers used in 8085 microprocessor.
2. What are the various type of Instructions used in 10
8085 microprocessor ? Give the classification based on size of instruction and function of instructions.
3. Explain the memory read machine cycle for 8085 10
microprocessor. Give an example of memory read cycle and draw a neat timing diagram for it.
4. What are the RST instructions in 8085 10
microprocessor ? Also discuss their priority.

5. Describe the 8155 programmable in detail. Also draw a detailed block diagram. **10**
 6. Describe the handshake signals and their functions if port A of the 8255 A is set up as an output port in mode 1. **10**
 7. What are memory mapped I/O devices ? Explain the control signal needed for memory-mapped I/O technique. **10**
 8. What are the control signals required for memory interfacing in 8085 ? Also discuss about the interfacing circuit required for it. **10**
 9. Describe the internal architecture of 8086 with the help of a neat diagram. Also describe various temporary registers used in 8086. **10**
 10. Write a short note on *any two* of the following : **5x2=10**
 - (a) Daisy chaining
 - (b) T-states
 - (c) DMA
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