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**BIEE-015**

**B.Tech. - VIEP - ELECTRICAL ENGINEERING  
(BTELVI)**

**Term-End Examination, 2019**

**BIEE-015 : MICROPROCESSOR AND ITS  
APPLICATIONS**

**Time : 3 Hours]**

**[Maximum Marks : 70**

**Note : Attempt any seven questions in all. Each question carries equal marks. Use of Scientific calculator is permitted.**

1. (a) Explain the Control and Status Signal available with 8085. [5]
- (b) What are the Applications of Micro Processor based system in our daily life ? [5]
2. (a) Explain the following Instructions of 8085 Microprocessor : [6]
  - (i) LHLD
  - (ii) XTHL
  - (iii) DAA

- (b) Explain Instruction Set of 8085 Microprocessor. [4]
3. (a) Write a program for addition of Four 8 bit numbers in Hexadecimal : 16H, 2BH, 3CH and 12H. [5]
- (b) Explain the use of Stack pointer and Program counter. [5]
4. (a) Explain use of buffers and latches with examples in interfacing 8085 with Peripherals. [5]
- (b) Draw the Block Diagram of Intel 8085, also explain each block briefly. [5]
5. Draw the Block Diagram of 8086 Microprocessor and explain its operation. Also mention the basic difference of 8086 and 8088 Microprocessor. [10]
6. (a) Describe min/max modes of 8086/8088 Microprocessor. [5]
- (b) Give instruction sequence to enable-disable trap-flag. [5]
7. Draw the Block Diagram of 8257, DMA Controller. Explain the function of each Part and Control Signal used. [10]

8. (a) Explain the Schematic and Operation of a Seven Segment Display. [5]
- (b) With the help of schematic block diagram, explain the dual slope technique of A/D conversion. [5]
9. An 8251, is used in synchronous mode for BISYNC data link then : [4x2.5=10]
- (a) How does 8251 detect start of a message ?
- (b) How does 8251 indicate that it has found a start of a Message ?
- (c) How does the receiving station in the link indicate that it has found an error in received data ?
- (d) How is the transmission link initialised ?

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