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6E6052

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6E6052

B.Tech. VI - Semester (Main & Back) Examination, April-2019
Electronics & Communication Engineering
6EC2A Microprocessors

Time : 3 Hours **Maximum Marks : 80**

Min. Passing Marks : 26

Instructions to Candidates:

*Attempt any **Five questions**, selecting **One question** from **each unit.** All questions carry **equal** marks. (Schematic diagrams must be shown wherever necessary. Any data you feel missing suitably be assumed and stated clearly.) Units of quantities used/calculated must be stated clearly.*

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Unit - I

1. Explain and Draw the Block Diagram as well as PIN Diagram of 8085 microprocessor. **(16)**

(OR)

1. a) Explain the need to demultiplex the bus AD_0-AD_7 in 8085 microprocessor. **(08)**

   b) Explain briefly different type of buses used in microprocessor. **(08)**

Unit - II

2. a) Explain the following instructions of 8085 microprocessor- **(4×2=8)**

   i) CMP

   ii) XCHG

   iii) LDAX

   iv) STAXB

   b) Explain in detail about subroutine and their usefulness in 8085 microprocessor. **(08)**

(OR)

2. a) Define opcode and operand. Specify the opcode and operand in the instruction (MOV H,L). **(08)**

   b) Write an assembly language program to find 1's and 2's complement of 16 Bit number. **(08)**

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Unit - III

3. a) Explain the term machine cycle, T-state and Instruction cycle. **(08)**

   b) Explain timing Diagram of 2-Byte instruction (MVI A, 32H). **(08)**

(OR)

3. Explain the 16 Bit data operation and arithmetic instruction. **(16)**

Unit - IV

4. a) Distinguish Between software and hardware interrupts. Draw the diagram of interrupt structure of 8085 MPU. **(10)**

   b) Explain the instruction RIM and SIM. Illustrate how to use them for 8085 MPU. **(06)**

(OR)

4. a) What do you mean by vectored and non-vectored interrupt. **(04)**

   b) Differentiate between maskable and non-maskable interrupts. Write an instruction to mask RST 7.5 and RST 6.5 interrupt simultaneously. **(12)**

Unit - V

5. Explain programmable peripheral devices, along with the PIN and block diagram. **(16)**

(OR)

5. Write short note on the following: **(2×8=16)**

   a) DMA controller

   b) Interval timer.

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