Roll No.

Total Pages: 2

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44184

MICROPROCESSOR INTERFACING & APPLICATION Paper-PC-IT-208A

Opt. (II)

Time: Three Hours]

[Maximum Marks: 75

Note: Attempt five questions in all by selecting at least one question from each unit.

UNIT-I

- 1. (a) With the help of neat diagram explain the architecture of 8085 microprocessor in detail. (8)
 - (b) Explain the flag register of 8085 microprocessor, in detail. (7)
- 2. (a) Explain the memory organization in 8085 microprocessor. (7)
 - (b) With timing diagram, explain the memory write operation in 8085 microprocessor. (8)

UNIT-II

- 3. (a) Write an 8085 assembly language program to generate a software time delay of 100 ms.
 - (b) Specify the contents of the registers and the flag status as the following instructions are executed:
 - (i) MVI A, 00H.

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- (ii) MVI B, F8H.
- (iii) MOV C, A.
- (iv) MOV D, B.
- (v) HLT. (8)
- 4. (a) Explain the following instructions with suitable example of each:
 - (i) LXI (ii) MOV (iii) SHLD (iv) LDAX (v) CMP (vi) STA. (12)
 - (b) Explain the sequence of events during the execution of the RET instruction by 8085 processor with the help of neat timing diagram. (3)

UNIT-III

- 5. (a) Write short note on vectored interrupts of 8085 microprocessor. (8)
 - (b) With suitable examples explain how I/O devices are connected using memory mapped I/O and peripheral I/O. (7)
- 6. Interface multiplexed 4 digit seven segment display with 8085 microprocessor. (15)

UNIT-IV

- 7. Draw the block diagram of 8237 DMA controller and explain its working. (15)
- 8. Explain the interfacing of LCD displays with 8085 microprocessor. (15)