

### SECTION-C

**Note:** Long answer type questions. Attempt any three questions. 3x10=30

- Q.3 Describe basic idea of ROM. Compare the feature of various type of ROM.
- Q.4 With the help of neat timing diagram explain the memory read machine cycle in detail.
- Q.5 Explain with the help of instruction, describe various type of addressing modes used in 8085.
- Q.6 Draw the functional block diagram of 8085. Explain function of each block in brief.
- Q.7 Write short note on:-
- (i) IC 8279
  - (ii) IC 8255

No. of Printed Pages : 4

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**5th Sem. / Elect. & Eltx.**

**Subject : Micro Processor**

Time : 3 Hrs.

M.M. : 100

### SECTION-A

**Note:** Very Short Answer type questions. Attempt any 15 parts. (15x2=30)

- Q.1
- a) Software.
  - b) Super Computer.
  - c) RIM.
  - d) TRAP.
  - e) SOD.
  - f) Secondary Memory.
  - g) 8 bit I/O ports.
  - h) T State.
  - i) RET instruction.
  - j) Subroutine.

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- k) Multiplexed Bus.
- l) SO & SI.
- m) Two byte instruction.
- n) Interpreter.
- o) ALU.
- p) Memory mapped I/O scheme.
- q) Parallel data transfer.
- r) Edge triggered interrupt.

## SECTION-B

**Note:** Short answer type questions. Attempt any ten parts  
10x4=40

- Q.2
- i) Describes features of first generation computer system.
  - ii) Describe the role of HOLD and HLDA pin signal of 8085.
  - iii) Explain the role of stack pointer.
  - iv) How a stored program is executed in 8085.

- v) Describe features of assembly level programming used in 8085.
- vi) What is execute cycle? Explain in brief.
- vii) Describe following instructions.
  - (i) LXI
  - (ii) JPO
- viii) Explain the execution of POP instruction in brief.
- ix) Explain operation of machine cycle in brief.
- x) What is wait state? Explain its role in programming.
- xi) Connect 2 K byte of EPROM with the system line of 8085 microprocessor.
- xii) How memory mapped I/O scheme is different from I/O mapped I/O scheme.
- xiii) Explain various software interrupt of 8085.
- xiv) Explain the Interrupt driven data transfer techniques in brief.
- xv) List main features of 8251.

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