

xv) Write a short note on "Address decoding".

SECTION-C

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

- Q.3 Draw pin configuration of 8085 microprocessor and explain each pin.
- Q.4 What is addressing mode? What are different types of addressing modes? Explain with the help of examples.
- Q.5 What are different types of instructions belonging to logic group of instructions?
- Q.6 Explain DMA in detail with the help of suitable diagrams.
- Q.7 Draw and explain block diagram of 8279 programmable KB/Display interface.

No. of Printed Pages : 4

Roll No.

126554/106554

5th Sem. / Elect & Eltx Engg.

Subject : Microprocessor

Time : 3 Hrs.

M.M. : 100

SECTION-A

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

Q.1 Define/Answer the following:-

- What is the use of microprocessor?
- 8085 is _____ bit microprocessor.
- Draw diagram of a microcomputer.
- What is the function of control bus?
- HOLD pin is used for _____.
- What do you understand by term demultiplexing?
- Program counter is _____ bit register.
- What is function of instruction register?

(80)

(4)

126554/106554

(1)

126554/106554

- i) ALE stands for _____.
- j) Which memory is volatile in nature?
- k) What is EEPROM?
- l) Define Mnemonics.
- m) What is operand?
- n) Name any two instructions of machine control group.
- o) What is T-state? Draw T-state.
- p) Define level triggered interrupts.
- q) SOD is used for _____.
- r) IC _____ is used as communication interface adapter.
- iii) What are different steps to execute a stored program?
- iv) What is stack pointer? What is its function?
- v) What is temporary register? Where it is used in microprocessor?
- vi) Differentiate between memory mapped I/O and I/O mapped I/O.
- vii) Write a short note on "Address decoding".
- viii) Compare static and dynamic memory.
- ix) What is instruction format of 8085 microprocessor?
- x) Write assembly language programming for multiplication of two-8-bit numbers.
- xi) Explain with the help of diagram, instruction cycle and machine cycle.
- xii) What are restart interrupts? What is its use?
- xiii) Explain interrupt driven data transfer scheme.
- xiv) Draw the block diagram of 8253.

SECTION-B

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

- Q.2 i) Differentiate between microprocessor and microcomputer.
- ii) What is impact of microprocessor on modern society?

(2)

126554/106554

(3)

126554/106554