

Tilak Maharashtra University
Diploma in Engineering
SUB: Microprocessors and Programming

Year –TY Branch- E&TC/Comp Semester -5th

Assignment No: 1

Attempt any four of the following

Q1) Explain the architecture of microprocessor with diagram.

Or

Q1) What are the applications of Microprocessors?

Q2) Write a short note on following:

- a.) Program counter
- b.) Stack
- c.) Timing & Control unit.
- d.) Instruction decoder.

Or

Q2) Explain the block diagram of Microprocessor 8085.

Q3) Explain the flag register of 8085 Microprocessor.

Or

Q3) Draw the pin diagram of 8085.

Q4) What are Buses? How Buses does works in 8085?

Or

Q4) Describe the Addressing modes of 8085 with examples.

Q5) Explain the function of following instructions.

- a.) LDA200H
- b.) MOV R., M
- c.) PUSH Rp
- d.) XCHG

Or

Q5) Define the following terms:

- a.) Accumulator.
- b.) CPU
- c.) ALU
- d.) Stack Pointer

Assignment No: 2

Attempt any four of the following

Q1) Describe the operation of microprocessor 8085.

Or

Q1) What are differences between Fetch cycle & Execution Cycle?

Q2) What is the Wait State in 8085 Microprocessor?

Or

Q2) What is the concept of Stack? What is the use of stack in microprocessor 8085?

Q3) What is subroutine? What are the applications of subroutines?

Or

Q3) Explain the CALL instruction.

Q4) What is difference between static RAM & Dynamic RAM?

Or

Q4) What are types of semiconductor Memories?

Q5) Why EEPROM is better than EPROM.

Or

Q5) Draw timing diagram for Memory Read Cycle.

Assignment No: 3

Q1) What is the interrupt in Microprocessor 8085.

Or

Q1) What are types of interrupts in 8085.

Q2) What is the difference between NON-Mask able and Mask able interrupt?

Or

Q2) What is the difference between Software interrupt & Hardware interrupts?

Q3) Describe the RST N instruction.

Or

Q3) What is the difference between Synchronous and Asynchronous Mode.

Q4) What is the Handshaking I/O Ports? Explain the Handshaking Input mode.

Or

Q4) What are features of PPI Device (8255)?

Q5) Explain the BSR mode of PPI Device (8255).

Or

Q5) Explain the following terms:

- a.) DAC
- b.) Quantization
- c.) Sampling theorem.
- d.) ADC.