6433
BOARD DIPLOMA EXAMINATION
MARCH/APRIL - 2019
DIPLOMA IN COMPUTER ENGINEERING
MICROPROCESSORS
FOURTH SEMESTER EXAMINATION

Time: 3 Hours   **Total Marks: 80**

PART - A   (3m x 10 = 30m)

Note 1:Answer all questions and each question carries 3 marks

2:Answers should be brief and straight to the point and shall not exceed 5 simple sentences

1. Draw the timing diagram of memory write cycle?

2. List the Special purpose registers of 8086 and write their function?

3. List the data transfer instructions of 8086?

4. Write about any three branch instructions

5. List the types of interrupts

6. Write examples of loop statements

7. List the types of call instructions in 8086

8. List the any 6 features of 80486

9. Write a short note on ports of 8051

10. Draw the block diagram of micro-computer? And mention its functional parts

PART - B   (10m x 5 = 50m)

Note 1:Answer any five questions and each carries 10 marks

2:The answers should be comprehensive and the criteria for valuation is the content but not the length of the answer

11. Define addressing mode? And explain the different addressing modes of 8086

12. Explain the Processor control instructions of 8086

13. Explain loop statements using any example program

14. Explain the types of interrupts in 8086

15A. Draw and explain the timing diagram of I/O write cycle

B. Write a program to compare two 8 bit quantities, if both contents are not equal, transfer 04h into CL register otherwise increment SI register

16. Explain the architecture of Pentium microprocessor

17. Explain different timer/ counter operating modes of 8051

18. Explain serial input and output port of 8051

- xxx -