

TED (15/19) - 4151
(REVISION-2015/19)

N21-03894

Reg.No.....

Signature.....

**DIPLOMA EXAMINATION IN ENGINEERING/TECHNOLOGY/MANGEMENT/
COMMERCIAL PRACTICE - NOVEMBER 2021**

MICRO PROCESSORS AND INTERFACIANG

(Maximum Marks:75)

(Time: 2¼ hours)

PART - A

Marks

- I. Answer **any three** questions in one or two sentences. Each question carries 2 marks.
1. What is the queue length of 8086 processor?
 2. How many address lines and data lines for 8086?
 3. List any two assemblers used in 8086.
 4. What is priority of interrupt?
 5. Name the operating modes of 80386. (3 x 2 = 6)

PART - B

- II Answer **any four** of the following questions. Each question carries 6 marks.
1. What are the status flags in 8086.
 2. Write any six features of 8086.
 3. Write any six data transfer instruction with format and example.
 4. Write an assembly language program for dividing two numbers.
 5. What is an interrupt service routine?
 6. Write the control word format of 8255 with brief explanation.
 7. Explain Hyper threading. (4 x 6 = 24)

PART - C

(Answer **any of the three units** from the following. Each full question carries 15 marks.)

UNIT - I

- III Explain the architecture of 8086. (15)

OR

- IV (a) Draw the pin diagram of 8086. (9)
(b) What is addressing mode? Write any four with example. (6)

UNIT – II

- V (a) Write different shift and rotate instruction (8)
(b) Write an assembly language program for finding length of a string. (7)

OR

- VI (a) Write the different flag manipulating instructions (6)
(b) Write 4 string instructions with format and example (9)

UNIT – III

- VII (a) Explain 8255 with neat diagram (10)
(b) What are different types of interrupts (5)

OR

- VIII (a) Explain programmable interrupt controller with diagram (10)
(b) What are predefined interrupts (5)

UNIT – IV

- IX (a) Explain different stages of Pipelining. (6)
(b) Explain pipeline hazards (9)

OR

- X (a) Explain the architecture of Pentium processors (9)
(b) Write short notes on Multicore processing (6)

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