

Roll No.

24230

**B. Tech. 5th Semester (CS & IT)
Examination – February, 2022**

MICROPROCESSING AND INTERFACING

Paper : EE-309-F

Time : Three Hours]

[Maximum Marks : 100

Before answering the questions, candidates should ensure that they have been supplied the correct and complete question paper. No complaint in this regard, will be entertained after examination.

Note : Attempt *five* questions in all, selecting *one* question from each Unit. Question No. 1 is *compulsory*. All questions carry equal marks.

1. Write short notes on the following: 20

- (a) Interrupt
- (b) EU
- (c) Directives
- (d) PIC

24230-1200-(P-3)(Q-9)(22)

P. T. O.

UNIT - I

2. Draw and explain Architecture of 8085 microprocessor. 20
3. (a) Write an assembly Language program to multiply two 8 bit numbers. 10
(b) Explain the concept of demultiplexing of address and data lines of 8085. 10

UNIT - II

4. Draw and explain block diagram of 8086. 20
5. (a) Describe addressing modes of 8086. 10
(b) Explain instruction formats of 8086. 10

UNIT - III

6. (a) Explain various types of data transfer Instructions of 8086. 10
(b) Explain various types of Logical Instructions of 8086. 10
7. (a) Describe Flag manipulation Instructions. 10
(b) Write an ALP to multiply to 1b bit numbers in 8086. 10

24230-1200-(P-3)(Q-9)(22) (2)

UNIT - IV

8. (a) Describe mode 0 of 8255 PPI chip. 10
(b) Draw the block diagram of 8255 PPI chip. 10
9. (a) Explain the block diagram of 8237 chip. 10
(b) Draw the block diagram of PPI. 10

24230-1200-(P-3)(Q-9)(22) (3)