

Roll No.:

SGT UNIVERSITY

END TERM THEORY EXAMINATION JULY-2022

Faculty/College of Study:	Engineering & Technology	Year/Semester:	6 th Semester
Program:	B.Tech. (CSE) Gen.	Duration:	03:00 Hrs
Course/Subject:	Micro Processing and Interfacing	Maximum Marks:	60
Course/Subject Code:	13020673	Batch:	2018

Instructions:-

1. Write Your Roll No. on the Question Paper.
2. Candidate should ensure that they have been provided correct question paper. Complaint(s) in this regard, if any should be made within 15 minutes of the commencement of the exam. No complaint(s) will be entertained thereafter.
3. All Questions are compulsory. Marks are indicated against each question.
4. Illustrate your answer with diagram wherever required.

SECTION-A

(Very Short Answer Type Questions)

Note: All Questions are compulsory: -

[12X1=12 Marks]

S. No.	Question	Marks Allotted
1	Which was the first microprocessor?	1
2	What is called instruction Queue.?	1
3	What is address bus & Data Bus?	1
4	What is the operating frequency & operation modes of 8086 microprocessor?	1
5	How many address lines are there in 8086?	1
6	What is clock driven device?	1
7	What is PSW?	1
8	What is Direct Memory Address scheme of communication?	1
9	Which instruction is Used to load the address of operand into the provided memory?	1
10	What is called Addressing capability?	1
11	What is microcontroller programming language?	1
12	Why Programmable Interval Timer IC is required?	1

SECTION-B
(Short Answer Type Questions)

Note: All Questions are compulsory: -

[4X2=8 Marks]

S. No.	Question	Marks Allotted
13	What is the function of stack pointer in 8085 microprocessor?	2
14	List basic features of 8086 microprocessor based device?	2
15	What is a ISR?	2
16	Write a program to add a data byte located at offset 0560H in 3000H segment and store the result at 0500H in the same segment in 8086 microprocessor?	2

SECTION-C
(Descriptive Answer Type Questions)

Note: All Questions are compulsory: -

[4X4=16 Marks]

S. No.	Question	Marks Allotted
17	Explain the following the i) Directives ii) assembler iii) interpreter	4
18	Explain the addressing modes of 8085 microcontroller?	4
19	What are the different working modes in the 8086 microprocessor? Explain them	4
20	How do we interface the 8255 with the I/O devices? Explain one device.	4

SECTION-D
(Long Answer Type Questions)

Note: All Questions are compulsory: -

[4X6=24 Marks]

S. No.	Question	Marks Allotted
21	Define interrupts and list the types of interrupts in 8085?	6
22	What are the different types of instructions in 8085? Explain.	6
23	Explain and draw pin diagram of 8086 microprocessor?	6
24	Explain the instruction format for 8086 microprocessor?	6