

Roll No.:

SGT UNIVERSITY

END TERM THEORY EXAMINATION JULY-2022

Faculty/College of Study:	Engineering & Technology	Year/Semester:	6 th Semester
Program:	B. Tech. (ME)	Duration:	03:00 Hrs
Course/Subject:	Machine Tool Technology	Maximum Marks:	60
Course/Subject Code:	13030604	Batch:	2019

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	Define Machine Tool?	1
2	What is engineering design?	1
3	Define profile of machine tool?	1
4	What is plastic slideways?	1
5	Define Aerostatic slideways?	1
6	What are the function of slide-ways?	1
7	Define gear	1
8	Define Gear Shaving?	1
9	What do you understand by copying of machine?	1
10	Define punch	1
11	What do you understand by the term jigs.	1
12	Define operation?	1

SECTION-B
(Short Answer Type Questions)

Note: All Questions are compulsory: -

[4X2=8 Marks]

S. No.	Question	Marks Allotted
13	Write step for machine tool structure?	2
14	What are the function of plastic slideways?	2
15	Explain generation of gear?	2
16	Explain the types of jigs and fixture locations?	2

SECTION-C
(Descriptive Answer Type Questions)

Note: All Questions are compulsory: -

[4X4=16 Marks]

S. No.	Question	Marks Allotted
17	What are the general requirement of machine tool?	4
18	What are the requirement of slideways?	4
19	Explain Gear shaving in details?	4
20	Explain the steps involved in design of Fixture?	4

SECTION-D
(Long Answer Type Questions)

Note: All Questions are compulsory: -

[4X6=24 Marks]

S. No.	Question	Marks Allotted
21	Write short notes on: 1. Bed Column 2. Housing 3. Materials of machine tool	6
22	What are the functions and Types of aerostatic slideways?	6
23	Explain Gear hobbling in details?	6
24	Explain the steps involved in design of Jigs?	6