

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:	Design of Transmission System	Maximum Marks:	60
Course/Subject Code:	13030652	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 Bearing?	1
2	What is chain drive?	1
3	Define contact bearing?	1
4	What is gear?	1
5	Define Spur gear?	1
6	What are the bending stress?	1
7	Define helical gear	1
8	Define bevel gear	1
9	What is worm gear	1
10	What is external rim clutches	1
11	Define clutches.	1
12	Define internal rim brakes.	1

SECTION-B
(Short Answer Type Questions)

Note: All Questions are compulsory: -

[4X2=8 Marks]

S. No.	Question	Marks Allotted
13	Define V belt and pulley?	2
14	What are the forces on gear tooth?	2
15	Explain friction and efficiency of worm gearing?	2
16	What are the temperature rise and friction materials of clutches?	2

SECTION-C
(Descriptive Answer Type Questions)

Note: All Questions are compulsory: -

[4X4=16 Marks]

S. No.	Question	Marks Allotted
17	What are the difference between flat belt and pulleys?	4
18	What are the stresses in gear tooth?	4
19	Explain stresses in straight bevel gear tooth?	4
20	Explain contracting Rim clutches?	4

SECTION-D
(Long Answer Type Questions)

Note: All Questions are compulsory: -

[4X6=24 Marks]

S. No.	Question	Marks Allotted
21	What are the steps involved in design of sliding contact bearing?	6
22	What are the steps involved in design of spur gear?	6
23	Explain stresses in worm gear tooth?	6
24	Explain Band type clutches in details?	6