

**TML024/EE/20070818**

**Machine Drawing**

**Time : 180 minutes**

**Marks : 100**

**Instructions for the students :**

1. All questions are compulsory.
2. "Long Answer type Question (LAQ)" is a supply type question of 20 marks, which require typical answer of about 60-80 lines in about 32-40 minutes.
3. "Short Answer type Question (SAQ)" is a supply type question of 5 marks, which require typical answer of about 15-20 lines in about 08-10 minutes.
4. Use of non-programmable type of scientific calculator is allowed.
5. Draw neat diagrams wherever necessary.
6. Assume suitable data if necessary.

Q. No.	Question (Q)	Question Marks
	<b>Long Answer type Questions (LAQ's)</b>	
1.	<p>Front view and right hand side view of an object are given in figure. By first angle method of projection draw top view.</p> <p align="center">Fig : 1 (Figure not to scale) All dimensions are in mm.</p>	20
2.	Enlist the different types of nuts (forms) used in engineering practice. Explain five with a neat sketch.	20
3.	Differentiate between riveted joints and welded joints. Enlist the different type of welded joints.	20
4.	What are the different types of machine drawing ? Explain production drawing in detail.	20

Q. No.	Question (Q)	Question Marks
<b>Short Answer type Questions (SAQ's)</b>		
5.	Differentiate between 'V' thread and square thread.	<b>5</b>
6.	What is the function of safety valve ?	<b>5</b>
7.	Explain the different terms related to spur gear (Spur gear terminology).	<b>5</b>
8.	How to represent surface roughness on drawing ?	<b>5</b>