

GUJARAT TECHNOLOGICAL UNIVERSITY
B.VOC. SEMESTER- I- EXAMINATION – SUMMER 2019

Subject Code: 1110301**Date: 30/05/2019****Subject Name: Machine Tool Technology****Time: 10:30AM to 12:30PM****Total Marks: 50****Instructions:**

1. Attempt all questions.
2. Make suitable assumptions wherever necessary.
3. Figures to the right indicate full marks.

		Marks
Q.1	(a) What is machine tool? Explain the need of machine tool.	05
	(b) Write the full form of CNC, FMS and List types of fixtures used with CNC.	05
Q.2	(a) Explain the basic components of lathe machine.	05
	(b) List the taper turning methods. Explain any one.	05
OR		
	(b) Enlist different types of Mandrels. Explain any two with neat sketch.	05
Q.3	(a) Classify drill machines and explain sensitive drill machine.	05
	(b) Explain drill nomenclature with neat sketch.	05
OR		
Q.3	(a) Explain principle of quick return mechanism.	05
	(b) Classify planer machine and explain any one.	05
Q.4	(a) Explain geometry of milling cutter.	05
	(b) Explain basic parts of milling machine.	05
OR		
Q.4	(a) List the methods of indexing. Explain any one.	05
	(b) Differentiate between jigs and fixtures.	05
Q.5	(a) Classify grinding machine in detail.	05
	(b) Explain grinding wheel nomenclature.	05
OR		
Q.5	(a) List the types of Broach and Broaching methods.	05
	(b) Explain continuous broaching.	05
