

GUJARAT TECHNOLOGICAL UNIVERSITY**B.VOC - SEMESTER- I EXAMINATION – WINTER 2019****Subject Code: 1110301****Date: 02/01/2020****Subject Name: Machine Tool Technology****Time: 10:30 AM TO 12:30 PM****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) Define: Cutting speed, Feed, Depth of cut, Machining, Flute Length	05
	(b) Write the full form of CNC, FMS and List types of jigs used with CNC.	05
Q.2	(a) Explain step turning, facing, and knurling carried out on the lathe machine.	05
	(b) Differentiate capstan lathe and turret lathe.	05
OR		
Q.3	(a) Enumerate different types of drilling machine. Explain any one.	05
	(b) Explain with neat sketch working of horizontal boring machine.	05
OR		
Q.3	(a) Explain crank and slotted link quick return mechanism in a shaper.	05
	(b) Differentiate between a shaper and a planer.	05
Q.4	(a) List various milling operations. Explain any three with neat sketch.	05
	(b) Explain up-milling and down-milling with neat sketch.	05
OR		
Q.4	(a) Explain column & knee type milling machine with neat sketch.	05
	(b) Differentiate between jigs and fixtures.	05
Q.5	(a) Explain the following terms: Glazing, Loading, Dressing, Truing, Mounting	05
	(b) State the standard marking system for grinding wheels.	05
OR		
Q.5	(a) Write advantages, limitations and applications for broaching.	05
	(b) Explain working of pull type and push type broaching.	05
