

GUJARAT TECHNOLOGICAL UNIVERSITY
B.VOC. –SEMESTER 1 (NEW SYLLABUS) EXAMINATION- WINTER 2018

Subject Code: 1110301**Date: 16/01/2019****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) 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 different operations performed on the lathe machine.	05
	(b) Differentiate capstan lathe and turret lathe.	05
OR		
	(b) Enlist different types of Mandrels. Explain any two with neat sketch.	05
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
