

GUJARAT TECHNOLOGICAL UNIVERSITY**B.VOC - SEMESTER– I EXAMINATION – WINTER 2019****Subject Code: 1110303****Date: 06/01/2020****Subject Name: Production 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) What is transfer machine? List the essential component of a transfer machine and explain any two in detail.	05
	(b) Enlist Types of Production System and Explain any one .	05
Q.2	(a) State various gear finishing processes. Explain any one.	05
	(b) Discuss following thread manufacturing methods with neat sketch (i) Chasing (ii) Rolling	05
	OR	
	(b) Compare gear shaping with gear hobbing	05
Q.3	(a) Write short note on “Economics of Machining”	05
	(b) Draw a neat sketch of a single point cutting tool indicating its complete geometry on it	05
	OR	
Q.3	(a) Describe each type of chip with the help of suitable sketch.	05
	(b) What are main characteristics of cutting tool materials?	05
Q.4	(a) Classify the die associated with press work and explain about compound die and progressive die.	05
	(b) Explain Press Operations.	05
	OR	
Q.4	(a) How the Presses are classified? Sketch and describe any one of it	05
	(b) What is high energy forming and explosive forming?	05
Q.5	(a) Enlist Various Surface Cleaning process and Explain any three cleaning process?	05
	(b) Explain Electrostatic Spray Finishing with figure advantage and limitations?	05
	OR	
Q.5	(a) What is Surface Treatment? what is the purpose of Surface Treatment?	05
	(b) Explain Buffing Process?	05