Seat No.:		D.: Enrolment No		
		GUJARAT TECHNOLOGICAL UNIVERSITY		
BE - SEMESTER-VI (OLD) - EXAMINATION – SUMMER 201'			7 05/05/2017	
Subject Code: 163404 Date: 05				
Sı	ubjec	ct Name: Tool Design		
Time: 10:30 AM to 01:00 PM Total I		10:30 AM to 01:00 PM Total Marks:	Marks: 70	
In	struct			
		1. Attempt all questions.		
		2. Make suitable assumptions wherever necessary.		
	•	3. Figures to the right indicate full marks.		
Q.1	(a)	Describe Combination Die with neat sketch.	07	
<b>~</b> ·-	(b)	Explain the design principles common to jigs and fixtures.	07	
	( )	OR		
<b>Q.2</b>	(a)	Discuss the nomenclature of the drill. Write the different types of drills.	<b>07</b>	
	<b>(b)</b>	Explain about nomenclature of a single point cutting tool with help of sketch.	<b>07</b>	
	<b>(3.</b> )	OR	^ <b>-</b>	
	<b>(b)</b>	Describe about embossing die and coining die.	07	
0.0	( )	OR	^=	
Q.3	(a)	Write any five factors affecting in drawing operation. How do you determine	07	
	<b>(b)</b>	blank size in drawing die? Explain in brief about Progressive Die with neat sketch.	07	
	<b>(b)</b>	OR	U/	
Q.3	(a)	Define the following: Fullering, Edging & Flattering.	07	
Q.J	(b)	Write short notes on 'Reamers'.	07	
	(0)	OR	0,	
Q.4	(a)	What is strip layout? How to find out strip layout with suitable example?	07	
<b>~··</b>	(b)	Define piercing, notching and shaving operations with simple sketch.	07	
	(,-)	OR		
Q.4	(a)	Write the types of drilling jigs. Write the design principles for drill bushings.	07	
	<b>(b)</b>	Classify press. Explain about Open Back Inclinable press with simple sketch.	<b>07</b>	
		OR		
Q.5	(a)	Define Bending operation. Explain any two Bending Terminologies.	07	
	<b>(b)</b>	Design of milling cutters. Explain	07	
		OR		
Q.5	(a)	Write the design principles for Milling Fixture.	<b>07</b>	
	<b>(b)</b>	What are the difference between jigs and fixtures?	<b>07</b>	

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