Seat No.:	Enrolment No.

GUJARAT TECHNOLOGICAL UNIVERSITY

BE - SEMESTER-VII (NEW) EXAMINATION - WINTER 2023

Subj	ect	Code:3171921 Date:06-	12-2023
•		Name: Metal forming analysis 0:30 AM TO 01:00 PM Total M	arks:70
Instru			MI INSTITUTE
	2.	Attempt all questions. Make suitable assumptions wherever necessary. Figures to the right indicate full marks. Simple and non-programmable scientific calculators are allowed.	
Q.1	(a) (b)		03 04
	(c)	Explain briefly about Tresca yield criteria with necessary sketches	07
Q.2	(a) (b) (c)	Explain spring back effect in bending process.	03 04 07
	(c)		07
Q.3	(a) (b) (c)	Discuss Anisotropy and its effects in deep drawing.	03 04 07
Q.3	(a) (b) (c)	Differentiate direct and indirect extrusion process.	03 04 07
Q.4	(a) (b) (c)	Discuss various rolling defects.	03 04 07
Q.4	(a) (b) (c)	Define (i) dry drawing (ii) wet drawing (iii) tube drawing. What is upset forging?	03 04 07
Q.5	(a) (b) (c)	Discuss effect of temperature on yield strength. What is drawability? List and discuss factor affecting to drawability	03 04 07
Q.5	(a) (b) (c)	State difference between compound and progressive dies.	03 04 ng 07
