Q.P. Code: 16ME329						
ŀ	Reg	. No:				
SIDDHARTH INSTITUTE OF ENGINEERING & TECHNOLOGY:: PUTTUR (AUTONOMOUS) B Toch IV Yoar I Somostor Supplementary Examinations August-2022						
METAL FORMING PROCESS						
(Mechanical Engineering)						
Time: 3 hoursMax. Marks: 6						
1	De	(Answer all Five Units $5 \ge 12 = 60$ Marks) UNIT-I velop an expression for two dimensional stress analysis	12M			
1	DU	OR	12111			
2	ล	Explain theory of Plasticity	6M			
-	u h	Outline the elastic and plastic deformation behavior of metals	6M			
	U		UIVI			
3	Dis	scuss briefly the working principle and various stages in drop forging with a neat sketch.	12M			
		OR				
4	Ex]	plain the various types of Forging defects that occur in Forging operation.	12M			
		UNIT-III				
5	a	Construct and explain the typical draw die used for wire drawing process.	6M			
	b	Explain the defects occurred in wire drawing process.	6M			
		OR				
6	a	Discuss in detail about the extrusion defects with neat sketch.	6M			
	b	Estimate the force required for extruding a brass billet is to be extruded from its initial	6M			
	~	diameter of 100 mm to a final diameter of 50mm. The working temperature of 7000°C	01.2			
		and extrusion constant is 250 Mpa				
	TINIT-IV					
-	0	tling the working principle of stratch forming and embassing which are serviced and in	1014			
1	Ju	tune the working principle of stretch forming and embossing which are carried out in	I ZIVI			
	she	eet metal work with neat sketches.				

OR

8	a	Discuss briefly about the defects in sheet metal products.	8M
	b	Explain the concept of spring back in sheet metal shearing with a suitable sketch.	4 M
	UNIT-V		
9	Ex	plain the working principle of thermoforming process with neat sketch.	12M

OR

10 Discuss the working principle of Stereo lithography technique with neat sketch. 12M

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