Paper / Subject Code: 31101 / MANUFACTURING PROCESSES

Q. P. Code: 37456

	(3 Hours) [10tar Mai	KS.
N. B	1) Question No. 1 is compulsory	
	2) Attempt any three questions from remaining five questions	49 43 49 43
	3) Illustrate your answers with neat sketches	325
	4) Figure at right side indicate marks	100 S
Q.1.	Write short notes on any four -	20
	a. Manufacturing process	XXXX
	b. Electronic packing	3,60
	c. Stereolithography	320
	d. Rolling defects	200
	e. Tool wear	500
Q.2	a) Define special casting process. Describe any one of them in details with neat sketch.b) Explain following term	10
	i) Coining ii) Piercing iii) Trimming iv) Punching	10
Q.3	a) Explain F.W Taylor tool life equation and draw the tool life curve for various metal.	10
	b) Distinguish between orthogonal cutting and oblique cutting	5
	c) Explain transfer molding with neat sketch.	5
Q.4.	a) Explain construction, working and application of electric discharge machining process	. 8
	b) Explain slotting machining with neat sketch.	6
	c) Explain forward extrusion and backward extrusion	6
Q.5	a) what are the non -traditional machine processes? Explain any one in brief	8
	b) Explain grinding machine with neat sketch	6
	c) Describe the sheldied metal arc welding process.	6
Q.6.	a) what are the three major stages in the production of silicon based integrated circuits.	10
	b) Explain structural types and materials for PCBs with neat sketch.	10
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