Paper / Subject Code: 51623 / Production Process

1T01433 - S.E.(Mechanical) Engineering)(SEM-III)(Choice Base Credit Grading System) ((R- 19) (C

Scheme) / 51623 - Production Process QP CODE: 10036927 DATE: 28/11/2023

Time: 3 Hour Total Marks: 80

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- 1. Question one is compulsory.
- 2. Solve any three out of remaining five.

Q.1		Write Short notes with sketch wherever applicable. (Solve any Four)		
	a	Pattern Allowances		
	b	Electron beam welding	(
	c	Rolling mills		
	d	Gear Hobbing		
	e	Industry 4.0		
Q.2	a	Explain different design principles of gating and risering system	10	
	b	Classify Welding processes and compare arc, gas and resistance welding	10	
Q.3	a	Describe different sheet metal operations with neat sketches	10	
	b	Write short not on Radial drilling machine	10	
Q.4	a	List various methods of taper turning and Explain any one in detail.	10	
	b	Explain stepwise procedure of powder metallurgy	10	
Q.5	a	Describe the investment casting with working principle, advantages, limitations and applications	10	
	b	Write short note on gas welding with different types of flames produced in it.	10	
Q.6	a	Compare the following	10	
		 Shaper and Planer Hot working and cold working 		
	b	List various nontraditional machining methods and explain Ultrasonic	10	
T.)	machining in detail		
	A			