

21AU33

Third Semester B.E. Degree Examination, June/July 2023 **Manufacturing Processes**

Max. Marks: 100

Tim	e: 3	hrs.	viax. Marks. 100	
Note: Answer any FIVE full questions, choosing ONE full question from each module.				
4		Explain various pattern allowances provided in casting.	(10 Marks)	
1	a. b.	List various patterns and explain split and sweep pattern.	(10 Marks)	
	U.			
		What are the different types of cores used in casting process? Sketch and explain any four		
2	a.		(10 Marks)	
	1.	Explain with a neat sketch the Sand Slinger.	(10 Marks)	
	b.			
		Module-2	(10 Marks)	
3	a.	Sketch and explain vertical centrifugal casting.	(10 Marks)	
	b.	Sketch and explain high pressure die casting.		
OR				
4	a.	Sketch and explain the construction and working of cupola furnace with	(10 Marks)	
		With a neat sketch, explain the different zone of a electric arc furnace.	(10 Marks)	
	b.	With a neat sketch, explain the different zone of a sleet of		
		Module-3	(10 Marks)	
5	a.	Sketch and explain TIG Welding, also mention its advantages.	ess and mention its	
	b.	Sketch and explain TIG Weiding, also mention its advantages. With a neat sketch, explain the "Oxy-Acetylene" gas welding proc	(10 Marks)	
		advantages and disadvantages.		
		OR	(10 Marks)	
6	a.	Define soldering and explain soldering iron method with a neat sketch.		
	b.	· · · · · · · · · · · · · · · · · · ·	(10 Marks)	
		sketch.		
		Module-4	, ,	
7	а	What is Forging? Explain Hot and cold Forging.	(10 Marks)	
,	h.	Explain Strain Hardening, Elastic and Plastic deformation.	(10 Marks)	
		OP		
		Sketch and explain, (i) Blanking (ii) Notching (iii) Lancing (iv) Pie	rcing (v) Embossing	
8	a.			
	b	List different types of rolling operations and explain any two.	(10 Marks)	
	Ü			
		Module-5 Serior la point outring tool with a neat ske	etch. (10 Marks)	
9		- 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1	(10 Marks)	
	b	. Explain with a near sketch the main parts of the		
		OR	(10 Marks)	
1	0 2	Sketch and explain shaping machine.	(10 Marks)	

Sketch and explain shaping machine. 10 (10 Marks) Sketch and explain grinding machine.