

GBGS SCHEME

18AU36

Third Semester B.E. Degree Examination, June/July 2023 Manufacturing Process – I

Time: 3 hrs.

Max. Marks: 100

Note: Answer any FIVE full questions, choosing ONE full question from each module.

	1 V	ote: Answer any FIVE juit questions, choosing ONE juit question from each mo	aute.	
		Module-1		
1	a.	Explain different types of pattern used in casting process, with neat sketch.	(10 Mayles)	
1	b.	What are the steps involved in casting process? Explain them briefly.	(10 Marks)	
	υ.	what are the steps involved in easting process? Explain them orienty.	(10 Marks)	
		OR .		
2	a.	Explain any five types of casting defects, with neat sketch.	(10 Mowles)	
_	b.	Write the principles of Gate's and Risers, with neat sketch.	(10 Marks)	
	υ.	write the principles of Gate's and Risers, with heat sketch.	(10 Marks)	
		Module-2		
3	a.	Discuss about the Jolt and Squeeze type moulding machine and write the adv	vantages of	
	и.	both.	(10 Marks)	
	b.	Sketch and explain the sweep moulding process and list out the advantages.	(10 Marks)	
	0.	sketch and explain the sweep moulaing process and list out the advantages.	(10 Marks)	
		OR		
4	a.	Explain the construction and working principles of Hot Chamber die casting proc	ess.	
			(10 Marks)	
	b.	With a sketch, explain the principle of operation of Coke Fired Pit Furnace and	also list the	
		advantages.	(10 Marks)	
		Module-3		
5	a.	List out the applications of welding process.	(08 Marks)	
	b.	With neat sketch, explain the Metal Arc Welding (MAW) process and also	write the	
		advantages and disadvantages.	(12 Marks)	
15		OR		
6	a.		(08 Marks)	
	b.	Explain the construction and working Gas torch.	(08 Marks)	
	c.	Write about Forward and Backward welding process.	(04 Marks)	
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_		Module-4		
7	a.	With neat sketch and explain working principle about spot welding.	(10 Marks)	
	b.	List out the advantages of projection welding.	(05 Marks)	
	C.	Write the application of resistance welding.	(05 Marks)	
		OP		
O	-	OR	(10 3/ 1)	
8	a.	With a neat sketch, explain the laser beam welding process.	(10 Marks)	
	b.	Mention the advantages and limitations of electron beam welding process. List the application of explosive welding process.	(06 Marks)	
	C.	List the application of explosive weighig process.	(04 Marks)	

Module-5

9 a. What are the parameters which affect soldering? (06 Marks)
b. Differentiate Soldering and Brazing. (08 Marks)
c. List out the advantages and disadvantages of brazing. (06 Marks)

OR

a. Explain ultrasonic inspection of (NDT) with neat sketch.
b. What is NDT? Listout the methods and explain magnetic particle inspection.
(10 Marks)
(10 Marks)

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