

21AU33

Third Semester B.E. Degree Examination, Jan./Feb. 2023 Manufacturing Process

Time: 3 hrs.

1/SNI

Max. Marks: 100

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

		Modulo 1	
		Module-1	
1	a.	With a neat sketch explain the different steps involved in casting.	(10 Marks)
	b.	Briefly explain the types of allowances given to a pattern.	(10 Marks)
2		OR	
2	a.	With a neat sketch explain jolting machine.	(10 Marks)
	b.	With a neat sketch explain the concept of gating and risering.	(10 Marks)
		Modell 2	
3	a.	Module-2 Elaborate with a neat sketch hot chamber die casting process.	(10 3/1)
3	b.	With a neat sketch explain direct electric arc furnace.	(10 Marks)
	υ.	with a hear sketch explain direct electric are furnace.	(10 Marks)
		OR	
4	a.	Elaborate with a neat sketch the working principle of a shell moulding.	(10 Marks)
	b.	With a neat sketch explain the constructional features of a cupola furnace.	(10 Marks)
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Module-3			
5	a.	With a neat sketch explain seam welding process.	(10 Marks)
	b.	Elaborate with a neat sketch the working principle of a electron beam welding pro	cess.
			(10 Marks)
		OD	
6	a.	With a neat sketch explain sub merged arc welding process.	(10 3/4 1)
U	b.	With a neat sketch explain sub merged are welding process. With a neat sketch explain the working principle of a Laser beam welding.	(10 Marks)
	υ.	with a heat sketch explain the working principle of a Laser beam weighing.	(10 Marks)
		Module-4	
7	a.	Briefly explain with a neat sketch the working principle of a board drop hammer.	(10 Marks)
	b.	With a neat sketch explain the working principle of a planetary rolling mill.	(10 Marks)
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		OR	
8	a.	With a neat sketch explain open die and closed die forging.	(10 Marks)
	b.	With a neat sketch explain tandem rolling mill.	(10 Marks)
		Module-5	
9	a.	With a neat sketch explain single point cutting tool geometry.	(10 Marks)
	b.	With a neat sketch explain horizontal milling machine.	(10 Marks)
OB			
10	0	OR Priefly explain the constructional features of a cylindrical amindia a machine	(10)/(-1-)
10	a. b.	Briefly explain the constructional features of a cylindrical grinding machine. Briefly explain the following cutting tool materials.	(10 Marks)
	U.	i) CBN ii) Carbides.	(10 Mayles)
		I) CBN II) Catolides.	(10 Marks)

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