Roll No.:....

337456(37)

B. E. (Fourth Semester) Examination, April-May 2021

(New Scheme)

(Mechanical, Production & Automobile Engg. Branch)

MANUFACTURING SCIENCE-I

Time Allowed: Three hours

Maximum Marks: 80

Minimum Pass Marks: 28

Note: Attempt all questions. Part (a) of each question is compulsory and carries 2 marks.

Attempt any two parts from (b), (c) and (d) which carry 7 marks each.

Unit-I

1. (a) What is Gate Ratio?

2

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-3	- 1	

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	(b)	What are the materials from which patterns can			(d)	State the advantages and limitations of soldering	
		made? Explain any five patterns with neat sketch.	7			process.	7
	(c)	Explain hot chamber and cold chamber die casting				Unit-IV	
		in detail.	7	4.	(a)	Define Lathe.	2
	(d)	What are the processes of shell moulding? What		7.	(4)	Define Latite.	
	(u)	are its advantages and disadvantages?	7		(b)	What are different types of Lathe? Explain turret	
		Consultation and state variages.			lathe with the help of neat sketch.	7	
		Unit-II			(c)	Explain principle and working of planer? What	
	(a)	Define Welding.	2			are various parts of planer?	7
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	(b)	Explain tungsten gas welding with neat sketch.	7		(d)	Describe quick return mechanism of shaper, also	-
	(c)	Explain metal inert gas welding process also give	=			explain its need.	7
		its merits and demerits.			Unit-V		
	(d)	Explain various gas welding equipments in detail.	7	5.	(a)	Define Broaching.	2
		Notes Attempt in specific and			(b)	What is Milling Machine? Explain the process of	
		u 5 - irrano bana unit-III a parambana			(-)	up milling and down milling.	7
3.	(a)	Define Resistance Welding.	2			Tr. Committee of the co	
	(b)	Explain the process sport and seam welding.	7		(c)	Explain twist drill geometry in detail.	7
	(0)	Explain the process sport and seam wereing.	,		(d)	Explain different types of reamers with neat sketch.	7
	(c)	Explain Thermit welding with the help of neat			()		
		sketch.	7				
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