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Roll No. :

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B. E. (Fifth Semester) Examination, Nov.-Dec. 2021

(New Scheme)

(Mechanical & Production Engg. Branch)

MANUFACTURING SCIENCE-II

Time Allowed: Three hours

Maximum Marks: 80

Minimum Pass Marks: 28

Note: Part (a) of each question is compulsory.

Attempt any two parts from (b), (c) and (d) of each question.

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1. (a) Define "friability"?

- 2
- (b) Explain centreless grinding and their types. What are the advantages and limitations of centreless grinding?

7

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	(c)	Explain various types of surface grinding machines	
		with respect to spindle and table movement.	7
	(d)	Explain various surface finishing operations.	7
		malmadam r J. Unit-II	
2.	(a)	Write the reasons for using nontraditional machining.	2
	(b)	Explain USM. Write advantages and limitations of USM.	7
	(c)		7
	(d)	Explain EBM. Write advantages and limitations of EBM.	7
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3.	(a)	Define "forgeability"? What are the types of forging operations?	2
	(b)	What are the different types of forging method?	
		Explain them briefly.	7
	(c)	Why flash and gutter are used? Explain different	
		types of forging defects.	7

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(d) What are the various types of extrusion? Explain

	them briefly.	./
	Unit-IV	
4.	(a) Define the term "draft" used in rolling.	2
	(b) List the rolling defects and explain them briefly.	7
	(c) Explain various types of shape rolling pocesses?	7
	(d) Explain briefly wire and tube drawing.	7
	Unit-V	
5.	(a) What is "shaving"?	2
	(b) Explain different types of shearing operation.	7
	(c) Explain briefly spinning, embossing and coining with the help of neat diagram.	7
	(d) What are the different types of dies used in sheet metal operations? Explain them briefly.	7