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Roll No.

337615(37) 2008209 141

B. E. (Sixth Semester) Examination, 2020

(Old Scheme)

(Mech., Mechatronics Branch)

INDUSTRIAL ENGINEERING

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 questions.

Unit-I

1. (a) Define Ergonomics.

What are the factors that influence the selection of

(b) What are the factors that influence the selection of location for a plant?

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		[2]				[3]	
	(c)	What are the principles of plant layout?	7			Unit-III	
	(d)	Write short notes on:		3	. (a)	What is Job Evaluation?	2
		(i) Process Layout	3.5		(b)	Explain procedure of Job Evaluation	7
		(ii) Product Layout	3.5		(c)	Explain the factors that influence payment of wages	
		de ampantana Unit-II onas deres (1. 1)				to the employees.	7
2.	(a)	Define Work study.	2		(d)	What is Incentive? What are the different types of incentive?	7
	(b)	Work study is a powerful tool for improving productivity. Explain.	7			Unit-IV	ŕ
	(c)	What are Therbligs? Give any five therbligs with		4	. (a)	Define Business Process Re-Engineering.	2
	, -	symbols.	7		(b)	Difference between Industrial Engineering and Re-	
	(d)	A work study was conducted in a machine shop.				engineering.	7
		The data has been recorded.			(c)	What are the characteristics of BPR? What are	
		Total number of observations = 2000				the advantages of Re-engineering?	+4
		No activity = 500 The ratio between manual to machine = 3 : 1			(d)	Write short notes on : 3.5 ea	.ch
		Portion of activities				(i) Internet, Intranet and Extranet	
		Average performance rating = 85%				(ii) Globalization and IT	
		Total number of pieces produced during study = Duration of the study = 60 hours	120			Unit-V	
		Calculate the standard time/piece assuming 15%		5	. (a)	Define Value Engineering	2
		relaxation allowance.	7				

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(b) What are the maintenace objectives?	7
(c) Explain Preventive Maintenance. What ar advantages & disadvantages?	
(d) Write short notes on:	3.5 each
(i) Reasons for replacement of equipment	
(ii) Value Engineering Vs. Value Analysis	
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What may dressland renshing drifted What are	
the abundance of Breenighteening	
Write stront notes and	
(ii) Globalization and IT	
V-int	