Total 1	No.	of	Questions	:	4]
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SEAT No. :		
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[6188]-313 B.E. (E & TC) (Honors) (Insem.) INDUSTRIAL ROBOTICS & AUTOMATION (2019 Pattern) (Semester - VII) (404181)

Time	:1 H	Hour] [Max. Marks:	30
Instru	ction	ns to the candidates:	
	<i>1</i>)	Attempt Q.1 or Q.2 & Q.3 or Q.4.	
	<i>2</i>)	Figures to the right indicate full marks.	
	<i>3</i>)	Assume suitable data, if necessary.	
Q1) :	a)	What is the cycle time in a Manufacturing operation.	[5]
	b)	What is production capacity? How can plant capacity be increased	
		decreased in short term.	[5]
(c)	What is computer integrated manufacturing.	[5]
		OR V	
Q2) :	a)	Define Automation. Explain basic elements of an Automated System production system.	n in [5]
1	b)	Define control system and its types with suitable block diagram.	[5]
(c)	Explain levels of Automation related to production system.	[5]
Q 3) :	a)	What is the difference between a processing operation and an assem operation.	bly [5]
1	b)	What is the difference between a single model production line and mix	
	U)	line production line.	[5]
	c)	What is manufacturing lead time explain in details.	[5]
·	<i>C)</i>	OR	[°]
Q4) :	a)	Explain partial Automation with reference to manufacturing.	[5]
		Explain the reasons and strategies of Automation	
	b)	Cive different types of enterpoted assembly systems	[5]
(c)	Give different types of automated assembly systems.	[5]