Total No. of Questions : 4]		600	SEAT No.:
PB202		[6269]-421	[Total No. of Pages : 2
T.E. (Robotics & Automation) (Insem)			
ROBOT PROGRAMMING			
(2019 Pattern) (Semester - II) (311508(A))			
Time: 1			[Max. Marks : 30
Instructions to the candidates:			
1)	Solve Q.1 or Q.2, Q.3 or Q.4.		, 0
2)	Figures to the right indicates		
3)	Neat Diagram must be drawn		
<i>4)</i> 5)	Assume Suitable data if necessure of Logarithmic Table, Sl.	-	nacket calculator is allowed
3)	Use of Logarithmic Table, Si	ine rule is Electronic	packet carculator is allowed.
			O.e.
Q1) a)	Explain what are Flex-Per	ndant and how it hel	ps to execute robot program?
	Explain with neat sketch.		[8]
4.			
b)			with various interlocking
	commands used in robot	ts.	[7]
		OP OF	
		O D	
Q2) a)	Write a short note on "Jo	ogging of Robot".	[7]
2)			
b)	What are various types o	f programming using	ng in robots? [8]
		000	\sim
Q3) a)	What are Motion Commi	ande? Enliet variou	s motion commands used in
Q3) a)	VAL with its application.	ands: Emist variou	
	VAL with its application.		[7]
b)	Differentiate between Mo	otion Commands an	d Programming Instructions
,	in context of VAL.		$\begin{array}{cccccccccccccccccccccccccccccccccccc$
		OR	0, 0,
04)	E 1 ' 41 C 11 '	1 141 4 4	
Q4) a) Explain the following code and the output when executed:			
1	i) POINT A 300, 550,	250, 0, 0, 0	201
	POINT B 0, 0, 150,	, 0, 0, 0	, P
	MOVE A:B		<i>)</i>
		Sp.	



- iii)
- , 4.5

 JINT P1

 95, 20, 40, 0, 90, 0

 HERE P1 iv)

[3+1+1+2=7]

Classify various types of robot programming languages? Explain any two types with its advantages and disadvantages. [8] b)

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