Tota	l No	of Questions : 4] SEAT No. :	
PB-	619	[Total No. of Pag	ge: 1
		[6269]-451	
T.E. (E & TC Engineering) (Honor's) (Insem.)			
ROBOTICS			
Robot Programming & Simulation			
(2019 Pattern) (Semester - II) (304183 HR)			
Time: 1 Hour] [Max. Marks: 3			
Instr	ucti 1)	ons to the candidates: Answer Q.1 or Q.2, Q.3 or Q.4.	
	2)	Figures to the right side indicate full marks.	
	3)	Assume suitable data, if necessary.	
Q 1)	a)	What is meant by ROS? Why it is good for ROBOTICS?	[5]
	b)	What is difference between ROS and other meta Operating Systems	?[5]
	c)	ROS for robotics software development; Pros and Cons? Explain	[5]
		OR O	
Q2)	a)	Why should we use Robot OS?	[5]
	b)	What are features of ROS?	[5]
	c)	Write a short note on ROS framework: Operating system and its var	ious
		releases?	·[5]
		Section 2018	.[5]
Q3)	a)	Explain in brief about of robot level programming languages?	[5]
	b)	What is Online and Offline Robot Programing?	[5]
	c)	Explain with typical Programming example such as Palletizing?	[5]
		OR	
Q4)	a)	Explain Robot Programming technique as a Path in Space?	[5]
	b)	What are various Textual Robot Languages?	[5]
	c)	Explain with typical Programming Examples of Loading a Machine?	[5]
	ĺ		
		×,	

