

www.FirstRanker.com Enwww.#firstRanker.com GUJARAT TECHNOLOGICAL UNIVERSITY

Subject Code: 2181922 Date: 02/05/2018 Subject Name: Automation(Department Elective III)							
				Time	e: 1(0:30 AM to 01:00 PM Total Marks: 70)
				Instru	ıctioı	ns:	
		Attempt all questions.					
		Make suitable assumptions wherever necessary.					
	3.	Figures to the right indicate full marks.					
Q.1	(a)	Why automation is necessary in Industry	03				
۷۰-	(b)		04				
	(c)	1 1	07				
	(0)	The second of th	0.				
Q.2	(a)	Explain the level of automation.	03				
•	(b)	-	04				
	(c)	Explain the different component used in Pneumatic System with neat	07				
		diagram.					
		OR					
	(c)	• • •	07				
		diagram.					
Q.3	(a)		03				
	(b)	· · · · · · · · · · · · · · · · · · ·	04				
	(c)		07				
		PLC in automation with suitable example.					
0.2	(.)	OR	02				
Q.3	(a)		03				
	(b)	* *	04 07				
	(c)	Explain the different types of sensors in robotics and also describe the working of any five sensors	U/				
0.4	(0)		03				
Q.4	(a) (b)		03				
	(c)	Explain different type of actuator in robotics with neat sketch	07				
	(C)	OR	07				
Q.4	(a)		03				
•	(b)		04				
	(c)	Explain the different component in Microcontroller.	07				
Q.5	(a)		03				
	(b)	Explain feasibility of automation in Indian market.	04				
	(c)	Describe the parameters and procedure set the automation in the machine	07				
		shop design.					
		OR					
Q.5	(a)	Differentiate transducer and sensor.	03				
	(b)	± • • • • • • • • • • • • • • • • • • •	04				
	(c)	1 11	07				
		automation with sketch.					
