Tota	ıl No	o. of Questions : 4]	SEAT No. :
PE		2	[Total No. of Pages : 1
		[6580]-5/2	
		B.E. (Electrical Engineer	
		PLC AND SCAI	
		2019 Pattern) (Semester VII) (403	3143 A) (Elective - III)
Time	e:1	Hour]	[Max. Marks : 30
		ions to the candidates:	
	<i>1</i>)	Solve Q.1 or Q.2, Q.3 or Q.4.	
	<i>2</i>)	Figures to the right indicate full marks.	1.5
	3)	Neat diagrams must be drawn wherever nece	
	<i>4</i>) 5)	Assume suitable additional data, if necessary	
	5)	Use of non-programmable calculator is allow	veu.
Q1) a) Describe Overall PLC system explaining the		Describe Overall PLC system explaining	ing the functions of each block in
		detail.	[7]
	b)	State and explain advantages and disa	dvantages of PLC. [8]
		OP	
		OR OR	· \$\phi\$.
Q2)	a)	State and explain the selection crite	ria for PLC and List any four
		manufacturers of PLC.	[7]
	b)	Explain Input and Output module of P	PLC. [8]
	0)	2. Praint input and 3 aprojecting 51 T	26.
Q3)	a)	Enlist different types of discrete inpu	it and output devices. What are
		actuators? Explain them in details.	at and output devices. What are
	•		
	b) Explain the following two different types of Encoders along with		
		diagram.	[8]
		i) Incremental Encoder	7 6.
		ii) Absolute Encoder	S S
			3
		OR	
Q4)	a)	Explain inductive and capacitive pr	roximity sensors in detail with
į.		diagram.	(5) [7]

Enlist different types of temperature sensors? Explain any one along with its construction, working principle, merits and demerits. [8]