Total No. of Questions	:	6]	
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SEAT No. :	
	1

P5796 [Total No. of Pages: 1

BE/Insem/Oct.-559 B.E. (Electrical)

		PLC and SCADA Applications	
		(2015 Pattern)	
Time	: 1 H	[Max. Marks : 3	30
Instr	uctio	ns to the candidates:	
	<i>1)</i>	Neat diagrams must be drawn wherever necessary.	
	2)	Figures to the right indicate full marks.	
Q 1)	a)	With a neat block diagram explain overall system of PLC. [7]	7]
	b)	Define programmable logic controller as per NEEMA. [3	3]
		OR O	
Q 2)	a)	What are various benefits of automation?	6]
	b)	State and explain various applications of PLC. [4	4]
<i>Q3</i>)	a)	Explain various input analog devices.	6]
~	b)		4]
	- /	OR	,
Q4)	a)	Write a short note on proximity sensors explaining its types. [5	5]
	b)	What are different types of control elements? Explain any one of them is detail.	in 5]
Q5)	a)	Explain various rules for development of ladder diagram. [8]	8]
	b)	Explain RESET instruction. [2	2]
		OR	
Q6)	a)	Explain control zone relay.	3]
	b)	Draw ladder diagram for traffic light controller using three different timer	s. 7]

