Total No. of Questions : 6]	SEAT No. :
P5796	[Total No. of Pages : 1

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

		PLC and SCADA Applications	
		(2015 Pattern)	
Time	e:1 E	Hour] [Max. Marks:	30
Instr	ructio	ons to the candidates:	
	1)	Neat diagrams must be drawn wherever necessary.	
	<i>2)</i>	Figures to the right indicate full marks.	
		9.7	
Q1)	a)	With a neat block diagram explain overall system of PLC.	[7]
	b)	Define programmable logic controller as per NEEMA.	[3]
		OR	
Q2)	a)	What are various benefits of automation?	[6]
	b)	State and explain various applications of PLC.	[4]
Q3)	a)	Explain various input analog devices.	[6]
	b)	Draw and explain electromechanical relay.	[4]
		OR	3
Q4)	a)	Write a short note on proximity sensors explaining its types.	[5]
	b)	What are different types of control elements? Explain any one of them	ı in
		detail.	[5]
Q5)	a)	Explain various rules for development of ladder diagram.	[8]
	b)	Explain RESET instruction.	[2]
		OR 06	
Q6)	a)	Explain control zone relay.	[3]
	b)	Draw ladder diagram for traffic light controller using three different timers.	
	•	9.	[7]

