Total No. o	of Questions : 4] SEAT No. :
P5215	[Total No. of Pages: 1
	[6188] 168
	B.E. (Electrical Engineering) (Insem)
PLC & SCADA	
(20	119 Pattern) (Semester - VII) (Elective - III) (403143 A)
Time: 1 H	our] [Max. Marks : 30 are to the candidates:
1) 5	Solve Q.1 or Q.2 Q.3 or Q.4.
	Figures to the right indicate full marks. Neat diagrams must be drawn wherever necessary.
4) A	Assume suitable additional data, if necessary.
5) U	Use of non-programmable calculator is allowed.
Q1) a)	State & explain advantages & disadvantages of PLC in details? [7]
b)	Draw & explain Block diagram of PLC in details? [8]
	OR)
Q2) a)	Write and explain a selection criterion of PLC? (7-Point) [7]
b)	Define PLC and explain how it is helpful in automation and its types?[8]
Q3) a)	State & explain any two output analog devices in details? [7]
b)	State types of temperature sensor & explain any one temperature sensors
	in details? [8]
	OR OR
Q4) a)	What are different types of actuators? Explain any one of them in details?
b)	What is encoder & explain any one type of encoder in details? [8]
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