

Total No. of Questions : 4]

SEAT No. :

P5215

[Total No. of Pages : 1

[6188]168

B.E. (Electrical Engineering) (Insem)

PLC & SCADA

(2019 Pattern) (Semester - VII) (Elective - III) (403143 A)

Time : 1 Hour]

[Max. Marks : 30

Instructions to the candidates:

- 1) *Solve Q.1 or Q.2 & Q.3 or Q.4.*
- 2) *Figures to the right indicate full marks.*
- 3) *Neat diagrams must be drawn wherever necessary.*
- 4) *Assume suitable additional data, if necessary.*
- 5) *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

Q4) a) What are different types of actuators? Explain any one of them in details? [7]

b) What is encoder & explain any one type of encoder in details? [8]

