

B.E. (Instrumentation & Control)
INDUSTRIAL AUTOMATION
(2015 Pattern) (406269) (Semester - II)

1. Write short note on types of Automation?
2. Explain role of automation in industries?
3. Write short note on RS 232?
4. Explain the architecture of SCADA in detail?
5. With neat diagram, explain SCADA application?
6. Explain with any suitable application implementation of closed loop SCADA system?
7. State various objectives of SCADA and types of SCADA?
8. Explain in brief architecture of PLC?
9. List out the supervisory computer functions in DCS?
10. Explain the block diagram of ESD system?
11. Explain HART protocol and its frame structure.
12. Describe control techniques in DCS?
13. Explain open system interconnection model with neat diagram?
14. Draw DCS flow sheet symbols and describe it.
15. Explain the concept of safety Integrity Level?