

Sem VIII Instrumentation (CBGS)

Instrumentation Project documentation and Execution.

71

Q.P. Code: 24933

29/11/2019

Duration : 3 hrs

Max .Marks : 80

Instructions

- 1) Question no.1 is compulsory
- 2) Solve any three questions from the remaining
- 3) Assume suitable data if necessary

- Q.No 1 a) Define Project and explain the Project structure. (4)
- b) Explain the role of consultant in EPC projects. (4)
- c) Explain the Pre-commissioning procedures. (4)
- d) Explain the purchase requisition note format and its importance. (4)
- e) Explain the cable scheduling with suitable example. (4)
- Q.No 2 a) List out the Engineering project deliverables and explain each one's importance. (10)
- b) Draw and explain the P & ID for cascade control system with level control as primary and flow control as secondary loop. Also explain P & ID's importance in project. (10)
- Q.No. 3 a) Draw and explain the hook up diagram for Flow and Temperature measurement and Prepare the BOM for each. (10)
- b) Explain the Instrument specification sheet for any one instrument in detail. (10)
- Q.No. 4 a) Explain with neat diagram the typical wiring diagram for Temperature control system. (10)
- b) Explain what is Engineering procurement procedure and methods, Also explain the Purchase order (P.O) format. (10)
- Q.No. 5 a) Explain what is HMI and its importance also prepare a Graphical User Interface (GUI) Template with suitable example. (10)
- b) Explain checkout procedure for Control valve and D.P transmitter. (10)
- Q.No. 6 Write short note on (Any Two) (20)
- a) Various standards used in Instrumentation Project.
- b) FAT, CAT and SAT
- c) Documentation software INTOOLS
- d) Project scheduling techniques.

-----X-----X-----