

Sem-VIII / Instrumentation
Project Documentation
& Execution

INST (CBCS)

18-05-16

Q.P. Code : 728202



(3 Hours)

[Total Marks : 80

- N.B. :**
- (1) Q I is **compulsory**
 - (2) Solve any **three** questions out of remaining **five** questions
 - (3) Assume any suitable data if required
 - (4) Draw neat diagram wherever required

1. Explain any Four

20

- (a) Define project and explain project structure with the help of success triangle.
- (b) Explain the role of constructor.
- (c) Describe Junction box scheduling.
- (d) Explain types of cables.
- (e) Explain ISA tagging process to indicate the instrument and its function.

2. (a) Explain the project deliverables in detail 10

(b) Explain the importance of specification sheet. Explain the specification sheet For Control valve 10

3. (a) Explain project scheduling technique. 10

(b) Write short notes on procurement methods and procedure. 10

4. (a) Explain DCS or SCADA graphics in detail. 10

(b) Draw and explain hook-up diagram for flow and temperature measurement. 10

5. (a) Explain different standard used in Instrumentation projects. 10

(b) Discuss in detail advantages of using software packages for documentation. 10

6. write a short note on (ANY TWO) 20

(a) Checkout procedure for Temperature transmitter and control valve.

(b) Draw and explain instrument location plan with example.

(c) What is HMI? Explain the importance of graphics in process control industry. Prepare graphical user interface template.