

(3 Hours)

(Total marks : 80)

- N. B.** (1) Question No. 1 is **compulsory**.
 (2) Answer any **Three** out of remaining questions.
 (3) Assumptions made should be **clearly** stated.
- Q. 1 Explain any **Four** **20**
 a) Define Project and explain the Project structure.
 b) Explain the role of constructor.
 c) Explain the format of Purchase requisition slip.
 d) Explain what is PUNCH LIST and its importance.
 e) Explain the cable scheduling with suitable example
- Q.2 a) List out the Engineering project deliverables and explain each one's importance **10**
 b) Explain the importance of specification sheet. Explain the specification sheet **10**
 for Thermocouple.
- Q.3 a) Draw and explain the hook up diagram for DP transmitter & Prepare the BOM for it **10**
 b) Explain what is Engineering procurement procedure and methods, Also explain **10**
 the Purchase order (P.O) format
- Q. 4 a) Explain DCS or SCADA graphics in detail. **10**
 b) Draw and explain Electronic loop wiring diagram for Level control loop. **10**
- Q.5 a) Explain different standard used in Instrumentation projects. **10**
 b) Checkout procedure for Control valve and DP Transmitter. **10**
- Q.6 Write a short note on (**ANY TWO**) **20**
 a) FAT, CAT and SAT
 b) Draw and explain instrument location plan with example.
 c) Project Scheduling techniques.
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