

B.E.(INSTRUMENTATION)(SEM VIII) (CBSGS) / Dec. 2019 / 09.12.2019

Duration: 03 Hours.

Total marks: 80

Instructions to the candidates if any:-



- 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 Solve any **Four**. 20
- Explain the different standards used in project documentation.
  - Explain the primary purpose of the Process flow diagram.
  - Draw and explain PRN (Purchase Requisition Note) format.
  - Explain the format of Punch List and also explain its importance.
  - Explain what is FAT, CAT and SAT and its importance.
- Q. 2
- Neatly draw the P & ID diagram for tank level control scheme Explain specification Sheet for Differential pressure type Level Transmitter. 10
  - Draw & explain electronic loop wiring diagram for Temperature control loop. 10
- Q. 3
- Draw installation hook up diagram of DP transmitter and also prepare BOM. 10
  - Explain what is Tender and also explain the different types of tenders. Also Explain in detail all the steps involved in the Purchasing 10
- Q. 4
- What are the main tasks of system integrator? Discuss CFC and SFC in detail with suitable example. 10
  - Explain what pre-commission and commissioning, explain in detail all the activities carried out during commissioning. 10
- Q. 5
- List out the comparison between CPM and PERT project scheduling techniques. 10
  - How the cable is routed between control panel & junction box? Prepare a chart showing point to point wiring information. 10
- Q. 6
- Discuss in detail advantages of using software packages for documentation. 10
  - Explain the Operations & maintenance (O & M) manual of the system integrator. 10

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