18MT61

Module-4

7 a. Explain parallel I/O system and serial I/O system.

b. Write a note on: i) Threshold detection ii) Isolation.

(10 Marks)

(10 Marks)

OR

8 a. Describe I/O modules in hazardous locations.
b. Explain the types of analog input modules.
(10 Marks)
(10 Marks)

Module-5

9 a. Define SCADA. Explain typical architecture of SCADA system.

b. Explain petroleum refining process in detail.

(10 Marks)

(10 Marks)

OR

a. Explain first generation-monolithic SCADA architecture and second generation-distributed SCADA architecture. (10 Marks)

b. Explain water purification system in detail. (10 Marks)