

Register No.:

763

April 2024

Time - Three hours
(Maximum Marks: 100)

- [N.B. 1. Answer all questions under Part-A. Each question carries 3 marks.
2. Answer all the questions either (A) or (B) in Part-B. Each question carries 14 marks.]

PART - A

1. What is mean by lag?
2. Write the working principle of liquid filled thermometer.
3. Name the gauges used for vacuum measurement.
4. Define Ionization gauge.
5. List the different units of flow.
6. Define Weirs.
7. Define PI controller.
8. Write a principle of open loop system.
9. What are the types of Digital computer system?
10. List modes of signal.

[Turn over.....

PART – B

11. (a) Explain about principle, types, application and advantages of thermocouples.

(Or)

- (b) Explain the construction and working of bimetallic thermometer with neat sketch.

12. (a) Explain the pressure measurement by bellow type pressure sensor with neat diagram.

(Or)

- (b) Explain Linear variable differential transformer.

13. (a) Explain the methods of measuring flow using magnetic flow meter.

(Or)

- (b) Explain about level measurement by capacitance type level sensor.

14. (a) Explain the application of controls in distillation column.

(Or)

- (b) Explain the block diagram of feed forward control in process control.

15. (a) Explain the construction and working of Data logging and transmission using computer.

(Or)

- (b) Explain about unit process and plant control.
