

**October 2018**

*Time – Three hours  
(Maximum Marks: 75)*

- [N.B: (1) Q.No. 8 in PART – A and Q.No. 16 in PART – B are compulsory.  
Answer any FOUR questions from the remaining in each PART – A  
and PART – B  
(2) Answer division (a) or division (b) of each question in PART – C.  
(3) Each question carries 2 marks in PART – A, 3 marks in Part – B and  
10 marks in PART – C.]*

PART – A

1. What is sensitivity?
2. What is RVDT?
3. Name any two instruments used for low pressure measurement.
4. State the working principle of liquid thermometer.
5. List any two instruments used for flow measurement.
6. Define strain.
7. What is automatic control system?
8. What is precision?

PART – B

9. Define threshold and resolution.
10. Define range and span.
11. Draw the diagram of bourdon tube.
12. Name any three electrical methods for temperature measurement.
13. State the working principle of hot wire anemometer.
14. Write short notes about carbon microphone.
15. What is feedback control system?
16. Write short notes about open loop control system.

[Turn over.....]

PART – C

17. (a) Explain the important terms in static characteristics.  
(Or)  
(b) Explain the various types of error.
18. (a) Explain displacement measurement using LVDT with a neat sketch.  
(Or)  
(b) Explain pressure measurement using ionization gauge with a neat diagram.
19. (a) Draw and explain construction and working of liquid in glass thermometer.  
(Or)  
(b) Explain the working of rotameter with a neat diagram.
20. (a) Draw and explain the construction and working of sling psychrometer.  
(Or)  
(b) Draw and explain the construction and working of eddy current type tachometer.
21. (a) Explain in detail about proportional controller.  
(Or)  
(b) Explain about feedback control system.

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