

593**April 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. Define: median.
2. Define: accuracy.
3. What is the histogram chart and draw the diagram?
4. Define: force.
5. Define the term elastic.
6. What is the use of manometers?
7. Mention the types of calibration.
8. Define mean velocity.

PART – B

9. List out the types of measurements.
10. Define the term sensitivity and reproducibility.
11. Draw the continuous diagram.
12. State mechanical displacements.
13. What is fluid cell?
14. What is meant by transducers?
15. Write the difference between venturi and rota meters.
16. Define: calibration.

[Turn over.....

PART – C

17. (a) Discuss about the fundamental methods of measurements.
(Or)
(b) Explain about the instrument terminology.
18. (a) Explain accuracy and precision with the analysis of experimental data.
(Or)
(b) Derive the equation for data presentation.
19. (a) Explain about the electrical and optical systems.
(Or)
(b) Explain about the dynamometers and its uses.
20. (a) Explain about the various pressure measurements (mechanical, manometers and transducers pressure).
(Or)
(b) Explain the working principle of strain gauges and their types.
21. (a) Discuss about the flow velocity and flow rate in detail.
(Or)
(b) Briefly explain about the pressure probes and calibration.
