



C14-M-605

4755

**BOARD DIPLOMA EXAMINATION, (C-14)
OCTOBER/NOVEMBER-2018
DME-SIXTH SEMESTER EXAMINATION**

MEASUREMENT & CONTROL SYSTEMS

Time : 3 Hours]

[Total Marks: 80

PART-A

3X10=30

- Instructions** :
1. Answer **All** questions.
 2. Each question carries **THREE** marks
 3. Answer should be brief and straight to the point

1. What are the aims of measurement?
2. Explain contact and non-contact measurement?
3. What are the various types of errors?
4. Define Transducer?
5. Define Strain Gauges. List out types of Strain Gauge?
6. What are the various types of tachometers?
7. Define Pyrometer?
8. Define Orificemeter?
9. Define Control System?
10. What are the applications of Pneumatic Control Systems?

PART-B

10X5=50

Instructions *

1. Answer any **five** questions.
2. Each question carries **ten** marks.
3. Answer should be comprehensive and the criterion for valuation is the content but not the length of the answer

11. Give the detailed classification of Instruments?

12. Write about the following: (a) Observation Errors

(b) Operational Errors

(c) System Interaction Errors

13. List out various Mechanical Sensing Elements?

14. Give detailed notes on Temperature Measurement?

15. Explain the following in detail

(a) Analogue Thermometers

(b) Probe Thermometers

16. Explain the following in detail

(a) Rotameter

(b) Current Meter

(c) Pitot's Tube

17. Explain in detail about Radiation Pyrometer?

18. Explain the following in detail

(a) Rotational Systems

(b) Electrical Systems
