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Roll No.			Total No. of Pages: 02

Total No. of Questions: 09

B.Tech.(IE) (ALL)/(ME) (Sem.-5) MECHANICAL MEASUREMENT AND METROLOGY

Subject Code: ME-307 Paper ID: [A0817]

Time: 3 Hrs. Max. Marks: 60

INSTRUCTION TO CANDIDATES:

- 1. SECTION-A is COMPULSORY consisting of TEN questions carrying TWO marks each.
- 2. SECTION-B contains FIVE questions carrying FIVE marks each and students have to attempt any FOUR questions.
- 3. SECTION-C contains THREE questions carrying TEN marks each and students have to attempt any TWO questions.

SECTION-A

1. Write briefly:

- a. What do you mean term measurand?
- b. What is dead zone?
- c. What is Noise?
- d. What are Environmental Errors?
- e. What do you mean line standard?
- f. What is slip gauge?
- g. What is gauge pressure?
- h. What is Seebeck effect?
- i. What is the use of Rota-meter?
- i. What is Dynamometer?

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SECTION-B

- 2. How instruments are classified? Explain.
- 3. Drive expression for time response of first order system when subjected to Unit ramp input.
- 4. Explain briefly working of radiation pyrometer.
- 5. Explain how transducers are classified.
- 6. Explain briefly the various methods of flow visualisations.

SECTION-C

- 7. What is Flatness? Explain any three methods used for flatness measurement.
- 8. Explain Bourdon tube pressure gauge and Diaphragm gauge used for pressure measurement.
- 9. Write the short notes on:
 - a) Hot Wire Anemometers
 - b) Report writing

2 M-59027 (S2)-2598