

R09**Code: 9A10502**

B.Tech III Year I Semester (R09) Supplementary Examinations, May 2013

INDUSTRIAL INSTRUMENTATION

(Electronics & Instrumentation Engineering)

Time: 3 hours

Max. Marks: 70

Answer any FIVE questions
All questions carry equal marks

- 1 (a) With neat schematic diagram, explain pneumatic type comparator.
(b) Explain in detail about dial – type protractors for angle measurement.
- 2 (a) With neat schematic diagram, explain revolution counters.
(b) Explain about rotational velocity measurement.
- 3 (a) Explain with diagram, the vibrating wire force transducer.
(b) Describe the working and construction of gyroscopic force measurement.
- 4 (a) Discuss about dead weight gauge.
(b) Discuss about McLeod gauge.
- 5 (a) Explain about mass flow meter.
(b) Explain about vortex shedding type flow measurement.
- 6 (a) Explain about radiation pyrometer with neat sketch.
(b) Explain the laws of thermocouple.
- 7 Describe the different electrical methods for measurement of liquid level.
- 8 Explain the different methods used for measurement of humidity.
