

Code No: R05311002

Set No. 3

III B.Tech I Semester Regular Examinations, November 2008
INDUSTRIAL INSTRUMENTATION
(Electronics & Instrumentation Engineering)

Time: 3 hours

Max Marks: 80

Answer any FIVE Questions
All Questions carry equal marks

1. What are the methods of measuring small bore diameter? Explain with neat sketches? [16]
2. What are different types of electrical tachometers? Explain in detail. [16]
3. (a) How stroboscope is used to measure torque of rotating shaft?
(b) What are load cells? Explain different types of load cells. [8+8]
4. (a) Null balance method is extended technique of LVDT pressure transducer. Explain.
(b) Explain how resistance strain gauges are used in pressure measurement. [8+8]
5. Explain the general types of area meters used for flow measurement and write short notes on Rotameters. [16]
6. Classify the methods used for specific gravity measurement and on what does they depend. [16]
7. Write short notes on thermal detectors. [16]
8. Which instruments are used for determining phase sequence of three phase supplies, classify them and explain. [16]
