

Code: R7311005

B.Tech III Year I Semester (R07) Supplementary Examinations December 2015

INDUSTRIAL INSTRUMENTATION

(Electronics & Instrumentation Engineering)

(For 2008 regular admitted batch only)

Time: 3 hours

Max. Marks: 80

Answer any FIVE questions
All questions carry equal marks

- 1 (a) Explain how you measure roughness and angle.
(b) Write short notes on optical methods of length and distance measurements.
- 2 (a) Bring out the differences between translational and rotational velocity.
(b) Explain the function of gyroscopes.
- 3 (a) Explain the method of gyroscopic force and torque measurement.
(b) Write short notes on working of dynamometers.
- 4 (a) Explain the working of vibrating cylinder transducers.
(b) Write short notes on principle of ionization gazes.
- 5 (a) Write short notes on function of a Rota meter.
(b) Explain the working of a laser Doppler velocity – meter.
- 6 (a) Describe the function of strain gauge load cell method.
(b) Explain the working of direct mass flow meters.
- 7 (a) Explain the working of a radiation thermometer.
(b) What is the principle of operation of optical pyrometers?
- 8 (a) With a neat figure explain the function of a microphones.
(b) Write short notes on particle instruments and clean – room.
