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B. Tech. 6th Semester (Mechanical Engineering)

Examination, May-2013

MEASUREMENTS AND INSTRUMENTATION

Paper-ME-310-F

Time allowed : 3 hours]

[Maximum marks : 100

Note : Attempt any five questions out of eight.

1. (a) Explain types of control system. 10
(b) Write a short note on Block diagram representation. 10
2. (a) Explain with diagram Hydraulic controllers. 10
(b) Explain with diagram electronic controller. 10
3. (a) Write a short note on error constants. 10
(b) Describe open and closed loop transfer function. 10
4. (a) Describe Analog and Digital Transducer. 10
(b) Describe Digital Encoders. 10
5. (a) Explain with diagram torque transducer. 10
6. (a) Explain Moderate Pressure Measurement. 10
(b) Explain with diagram positive displacement meters. 10

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7. (a) Explain with diagram vibrating string transducer with suitable applications. 10
- (b) Explain electro mechanical methods with suitable diagram. 10
8. (a) Describe total radiation pyrometer with suitable applications. 10
- (b) Describe Thermoelectric sensors. 10