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Enrollment No:									
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LDRP INSTITUTE OF TECHNOLOGY & RESEARCH, GANDHINAGAR.
B.E. SEM VI (ELECTRICAL)
MID SEMESTER EXAMINATION FEB-2015

Date : 05/03/2015
 Duration : 12:00 to 13:30

Subject Name: Industrial Instrumentation
 Max. Marks : 30

- Attempt all questions
- Draw appropriate diagram wherever necessary.
- Figure on right indicates full marks.

Q-1(A) Explain the following characteristics of a Transducer. 5
 (i) Linearity (ii) Resolution (iii) Sensitivity (iv) Threshold (v) Repeatability

Q-1 (B) State different methods for torque measurement. Explain any one in detailed 5

Q-2 (A) Describe with neat sketch the construction and working of Rotameter. State its Advantages and Disadvantages. 5

Q-2 (B) State different pressure measurement techniques. Explain any one in detail 5

OR

Q-2 (A) Describe the construction, working, advantages and limitation of any method for flow measurement 5

Q-2 (B) Explain using neat sketch, how LVDT can be used to measure pressure. 5

Q-3 (A) What is Transducer? Explain advantages of electrical transducer. 5

Q-3 (B) Explain difference between Primary transducer- Secondary transducer 5

OR

Q-3 (A) Name different types of electrical force transducer. Explain any one. 5

Q-3 (B) Define transducer and classify transducers on different basis. 5

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