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JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY HYDERABAD B. Tech IV Year I Semester Examinations, February/March - 2016 INSTRUMENTATION AND CONTROL SYSTEMS

MEC

(Common to ME, AME)

Time: 3 Hours

Max. Marks: 75

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Answer any Five Questions **All Questions Carry Equal Marks**

- Discuss in detail about the dynamic performance characteristics of measuring instruments.
- Explain the principle of working of thermocouples. How sets of thermocouples can be used for measuring average temperature and low temperatures of a room?
- What are bellows? Describe and explain the working of various types of bellows. 3. [15]
- What is the principle of working of ultrasonic flow meter? What are its 4. [15] advantages over other type of flow meter?
- Explain the construction, working and applications of accelerometer. 5.
- Explain the use of electrical strain gauges for compressive strains. [15] 6.
- Give the classification of load cells. Explain how load cells can be used to 7. measure the forces acting in different directions in a machine tool.
- 8.a) What are the advantages of closed loop control? [7+8]Give the properties of block diagrams.

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