Code No: 09A50406

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JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY, HYDERABAD B. Tech III Year II Semister Examinations, May/June - 2013

Electronic Measurements and Instrumentation (Electronics and Communications Engineering)

Time: 3 hours

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Max. Marks: 75

Answer any five questions

- All questions carry equal marks Define the terms Accuracy, Error, Precision, Resolution, Expected value and 1.a) Sensitivity. What is the difference between secondary standards and working standards? b) Explain the working of a true value RMS voltmeter. c) [15] 2. Explain with the help of neat circuit diagram the working of dual slope DVM. [15] 3.a) How broad band sweep frequencies generated using a sweep generator? b) List the various controls on the front panel of the pulse generator and mention their uses. [15] Draw the circuit diagram and explain the working of a heterodyne type wave 4. analyzer. [15] 5.a) Derive the criterion for balance of a Kelvin's bridge. Describe the operation of the Wheat stone bridge with neat circuit diagram. b)
- Explain in-detail the principle, construction and operation a single beam CRO, 6. with a neat diagram, [15]
- 7.a) Explain the operating principles of LVDT.
 - Explain the construction and operation of strain gauge system for the b) measurement of force.
- What is the difference between thermocouple and thermistor? c) [15] FIS 部署
- Compare a magnetic flow meter. With turbine flow meter 8.a)
 - b) What is the operating principle of a better gauge?
- Explain the operation of optical pyrometer. c) [15]