	ME - 503 B.E. V Semester camination, December 2013 cal Measurement and Control	ovonline.	in	i) The Arithmetic Mean iii) Average Deviation v) The Variance. iii) Deviations from mean iv) Standard Deviation 7 Unit - III
Time: Three Hours		5.	a)	How will you classify temperature measuring devices?
	Max. Marks: 70 mpt Five questions. questions carry equal marks.		b)	Explain constructional details of RTD, with a neat sketch. OR
Unit - I		6.	a)	Discuss various methods used for measuring output of
 a) Compare deflection and null type instrument. 7 b) Explain: 7 i) Static Error ii) Accuracy and Precision iii) Hysteresis iv) Linearly. OR a) Distinguish between direct and indirect methods of instruments. Give examples. 7 b) Explain the term Precision Error and BIAS Error. 7 Unit - II 		f	7. a) b)	Thermocouples. 7 Explain various application's of Thermistors with the help of circuit diagrams. 7 Unit - IV Explain different types of strain gauges. 7 Analyze of measurement of Torque of Rotating Shaft. 7 OR What are Mechanical Strain gauges? 7
			b)	Define and derive gauge factor of strain gauge. 7
3. a) Compare	Gross Error and Systematic Error.	7		Unit - V
b) What is R	egression Analysis?	9.	a)	What is Block Diagram of a Close loop system?
4. a) Define for i) Nor	OR Ilowing terms mal distribution. ii) Variance	7	b)	What are the advantages of close loop control systems? OR
b) A circuit	was tuned for Resonance by eight differen	2). a)	Compare open loop control system and close loop control system.
	as 532, 548, 543, 535, 546, 531, 543 and 536	www.	b) rgpvon	Discuss Transfer Function of a Linear System. 7

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