Total No. of Questions: 10] [Total No. of Printed Pages: 2	[2] rgpvonline.com
rgpvonline.com Roll No. ME-503	. 4. What is regression analysis? Discuss least squares regression analysis method. 20 Unit-III
B. E. (Fifth Semester) EXAMINATION, Dec., 2011 (Mechanical Engg. Branch) MECHANICAL MEASUREMENT AND CONTROL (ME-503)	 5. Explain the working of a bimetallic thermometer with the help of a neat diagrams. Or 6. Explain the principle of metallic electric resistance thermometers. Describe their construction and working. 20
Time: Three Hours Maximum Marks: 100 Minimum Pass Marks: 35	7. Discuss a null type and reflection type Wheatstone bridge
Note: Attempt five questions in all taking one from each Unit. All questions carry equal marks. Unit—I	8. Discuss the construction and working of a potentiometer used for displacement measurement.
 (a) What do you understand by Direct and Indirect methods of measurements? (b) Differentiate between primary, secondary and tertiary 	9. What do you understand by control system? Give classification and explain it.
types of measurements. 10 Or 2. (a) Explain the terms generated noise, conducted noise	10. (a) Give the comparison between open-loop and closed-loop system. (b) Describe the transfer function of linear system.
and radiated noise. (b) Define the Range, Accuracy and Precision. 10 Unit-II	(b) Describe the transfer function of linear system. 10
(a) Name standard statistical distributions related to measurement and give their applications. 10 (b) Write a short note on normal distribution curve. 10 P. T. O.	rgpvonline.com ME – 503
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