Revised 87

DATE: /_/_

Q.2 Given-

Full scale reading of ammeter = 25 MA + 2%.

error = ± 2/100 x 25 = ± 0-5 mA.

R = 820 ± 10 y. -2

Loe longer :

p=12

take born ride log

enp= en (ste)

=) unp = zen i + en R

Differentiate cort 'p'

 $\frac{1}{p} = \frac{2}{L} \frac{di}{dp} + \frac{1}{R} \frac{dR}{dP}$

 $= \frac{DP}{P} = \frac{20I}{I} + \frac{DR}{R}$

 $\frac{\Delta P}{P} = 2 \times (\frac{t}{5}) + 10 \times \frac{\Delta P}{P}$

= 20 %

= .0.02

Q-4

| Ninimany Static Sentitivity = \frac{39.6-20}{40-20}

= 0-98

Non-hinearity = 39.6-40 XIC

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