

ASSIGNMENT 3 - Analogue Indicating Instruments and Applications

Instructions: Please download, print, provide answers using the spaces provided, scan and submit on vclass before or on the due date.

QUESTION

1. With the aid of a labelled diagram, describe how a Permanent Magnet Moving Coil Ammeter Works.

2. Derive an expression relating the measured current and the control torque (assuming spring control).

3. A PMMC Ammeter with a $20\ \Omega$ coil resistance has a full-scale deflection of 10mA. A $0.02\ \Omega$ resistor is placed across the meter to increase its rating capacity. What is the new full-scale current in Amperes of the meter?