RWAMAGANA DISTRICT

ADVENCED LEVEL DISTRICT COMPREHENSIVE

ASSESSMENT FOR THE SECOND TERM,2023-2024.

SUBJECT: ALTERNATIVE TO PHYSICS PRACTICAL

LEVEL: SENIOR FOUR (S4)

COMBINATIONS:

PHYSICS-CHEMISTRY-MATHEMATICS (PCM)

MATHEMATICS- PHYSICS- COMPUTER SCIENCE (MPC)

PHYSICS –CHEMISTRY- BIOLOGY (PCB)

MATHEMATICS –PHYSICS- GEOGRAPHY (MPG)

ASSOCIATED NURSING PROGRAM (ANP)

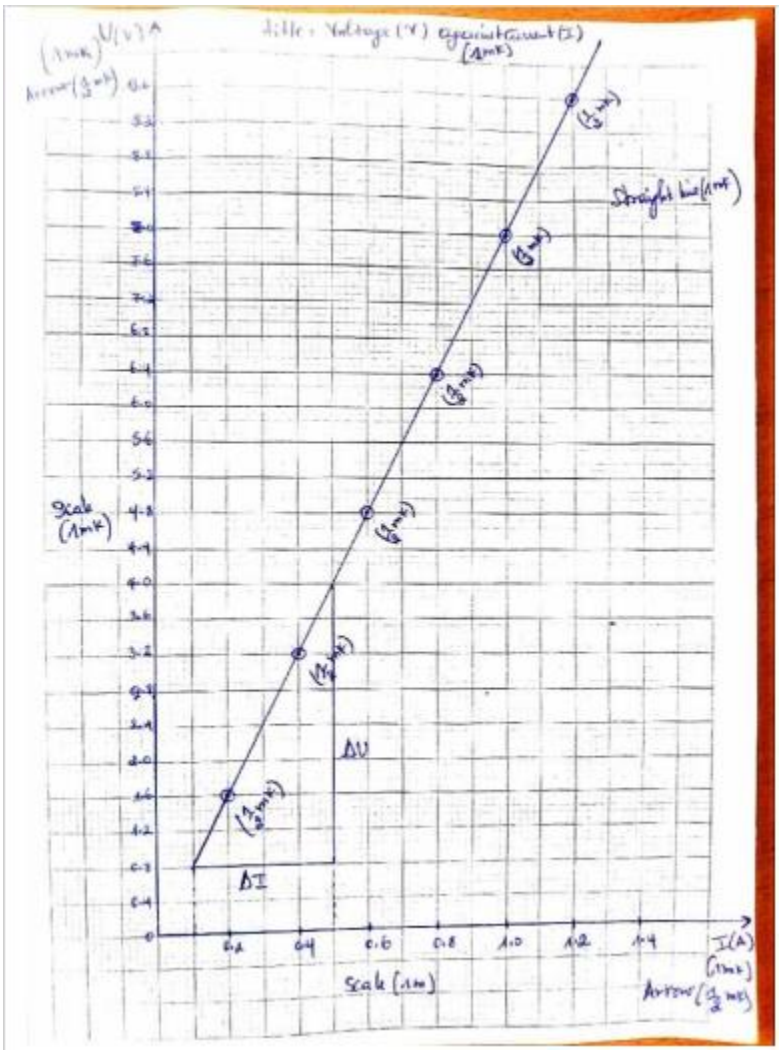
/20MARKS

ALTERNATIVE TO PHYSICS PRACTICAL MARKING GUIDE 2024.

1. Ohm's law states that the resistance of a conductor is directly proportional the electric voltage and inversely proportion to the current**.** **(2marks)**

   Or
   The electric current is directly proportional to the voltage and inversely proportional the resistance of the conductor.
   Or
   The electric voltage is directly proportional to the product of electric current and resistance of the conductor.

2.The graph is drawn below;



3. The gradient/slope= $\frac{\Delta U}{\Delta I} = \frac{4.0-0.8}{0.5-0.1} = \frac{3.2}{0.4} = 8V/A$ **(2marks)**

Note: to show the slope on the graph is (2marks)

4.The unit of the gradient/slope is V/A or Ω **(1mark)**

5. The gradient represents the resistance of the conductor. **(2marks)**

6. According to the graph shown there is no random errors occurred. **(1mark)**

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