

Question 2

This experiment determines the resistance per unit length of the given wire.

You are provided with:

- (a) A 100 cm long and uniform metallic wire AB attached to a metre scale on a wooden board. It is provided with binding terminals at its ends.
- (b) A resistance box R.B. of range 0 to $10\ \Omega$.
- (c) An ammeter A of range 0 – 1 A.
- (d) A Voltmeter V of range 0 – 3 V
- (e) A jockey J
- (f) A plug key K
- (g) A 4V d.c. power supply E
- (h) A few connecting wires.

- (i) Arrange the circuit as shown in *Figure 2* below. Make sure that all connections are tight.

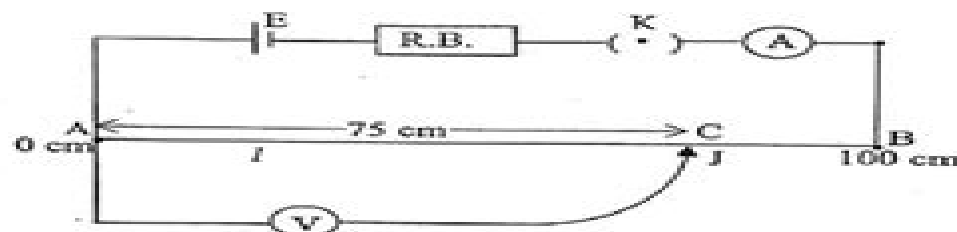


Figure 2

- (ii) Close the key K and take out a $1\ \Omega$ plug from the resistance box R.B. so that $R = 1\ \Omega$. Ensure that all other plugs in the resistance box are tightly closed.
- (iii) Place the jockey J at point C on the wire AC such that $AC = 75\text{ cm}$. The reading of the ammeter and the voltmeter must be within its range. Read and record the readings of the ammeter and the voltmeter, i.e. V and I with proper units.
- (iv) Repeat the experiment to obtain four more values of R, i.e. $R = 2\ \Omega, 3\ \Omega, 4\ \Omega$ and $5\ \Omega$. Each time, record readings of R, V and I. Ensure that the jockey is always kept at the same position C, such that $AB = 75\text{ cm}$ in all five sets of readings.
- (v) Determine the value of r using $r = \frac{V}{I}$ for each set, correct upto three significant figures.
- (vi) Tabulate all the five sets of values of R, V, I and r with proper units.
- (vii) Show any one of the above readings in (vi) above, to the Visiting Examiner.
- (viii) Find r_0 the mean of all the five values of r and record its value in your answer booklet, upto one decimal place with proper unit.
- (ix) Calculate $K = \frac{r_0}{75}$ and record its value correct upto one decimal place with proper unit, in your answer booklet. (where K is resistance per unit length)

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Table of Contents 14 Wassce Physics Practical Question Paper

1. Understanding the eBook 14 Wassce Physics Practical Question Paper
 - The Rise of Digital Reading 14 Wassce Physics Practical Question Paper
 - Advantages of eBooks Over Traditional Books
2. Identifying 14 Wassce Physics Practical Question Paper
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an 14 Wassce Physics Practical Question Paper
 - User-Friendly Interface
4. Exploring eBook Recommendations from 14 Wassce Physics Practical Question Paper
 - Personalized Recommendations
 - 14 Wassce Physics Practical Question Paper User Reviews and Ratings
 - 14 Wassce Physics Practical Question Paper and Bestseller Lists
5. Accessing 14 Wassce Physics Practical Question Paper Free and Paid eBooks
 - 14 Wassce Physics Practical Question Paper Public Domain eBooks
 - 14 Wassce Physics Practical Question Paper eBook Subscription Services
 - 14 Wassce Physics Practical Question Paper Budget-Friendly Options
6. Navigating 14 Wassce Physics Practical Question Paper eBook Formats

- ePub, PDF, MOBI, and More
- 14 Wassce Physics Practical Question Paper Compatibility with Devices
- 14 Wassce Physics Practical Question Paper Enhanced eBook Features
- 7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of 14 Wassce Physics Practical Question Paper
 - Highlighting and Note-Taking 14 Wassce Physics Practical Question Paper
 - Interactive Elements 14 Wassce Physics Practical Question Paper
- 8. Staying Engaged with 14 Wassce Physics Practical Question Paper
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers 14 Wassce Physics Practical Question Paper
- 9. Balancing eBooks and Physical Books 14 Wassce Physics Practical Question Paper
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection 14 Wassce Physics Practical Question Paper
- 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
- 11. Cultivating a Reading Routine 14 Wassce Physics Practical Question Paper
 - Setting Reading Goals 14 Wassce Physics Practical Question Paper
 - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of 14 Wassce Physics Practical Question Paper
 - Fact-Checking eBook Content of 14 Wassce Physics Practical Question Paper
 - Distinguishing Credible Sources
- 13. Promoting Lifelong Learning
 - Utilizing eBooks for Skill Development
 - Exploring Educational eBooks
- 14. Embracing eBook Trends
 - Integration of Multimedia Elements
 - Interactive and Gamified eBooks

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