

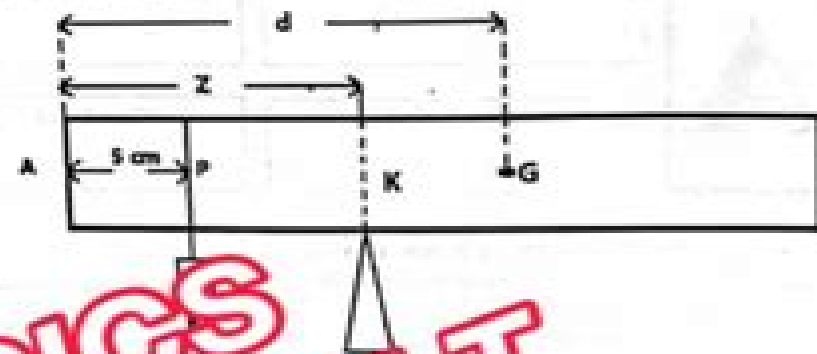
precautions are:

1. I would ensure that the key is opened when the circuit is not in use to avoid the cell being used up.
2. I would ensure that the electrical wires are tightly connected
3. I would ensure that I take note of the zero error in the pointer instruments to avoid systematic error
4. I would ensure that I take pointer readings within the vertical eye level to avoid parallax
5. I used short connecting wires to ensure that the required energy to drive the electrical charges was not used up in overcoming the resistance of the wire.

(b)(i). The factors affecting the resistance of a wire are:

- length of wire (R & L)
- cross-sectional area of the wire
- Nature of material

100 100 PHYSICS PRACTICALS - ALT A

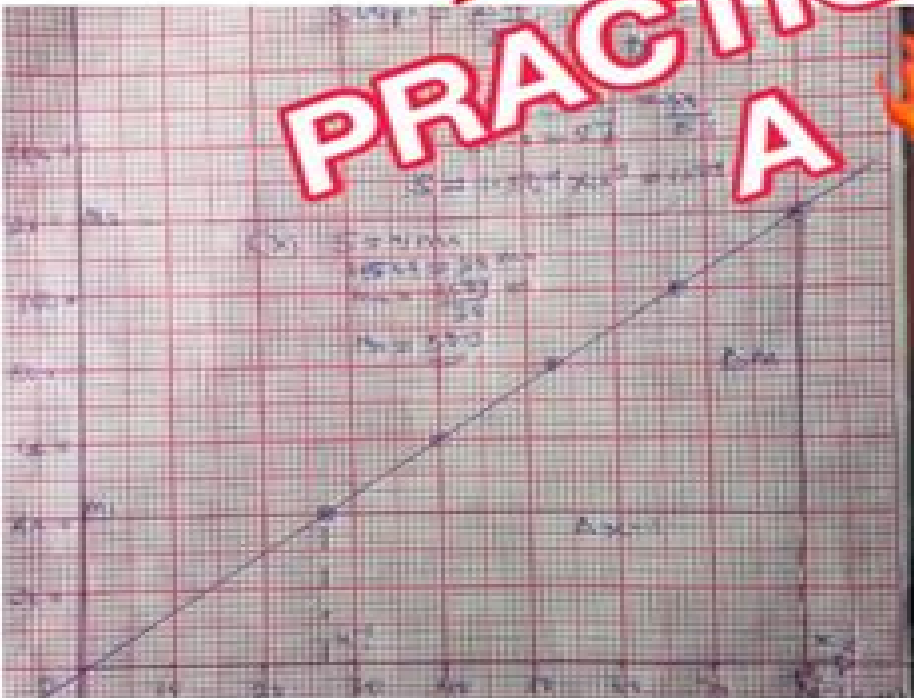


The student is provided with a metre rule, a weight hanger, slotted masses, M, a weighing balance and a knife edge.

Use the steps given as a guide to perform the experiment.

- (i) Using the weighing balance, determine and record the mass, M_0 , of the weight hanger.
- (ii) Determine and record the mass, m , of the weight hanger.
- (iii) Suspend the metre rule horizontally on the knife edge. Adjust the knife edge to a point on the metre rule where it balances horizontally.
- (iv) Record the distance, $d = AG$.
- (v) Suspend the weight hanger securely at a point, P, on the metre rule such that $AP = 5 \text{ cm}$. Keep the hanger at this point throughout the experiment.
- (vi) Add a mass, $M = 20 \text{ g}$ to the hanger, adjust the knife edge to a point on the metre rule such that it balances horizontally as shown in the diagram. Determine and record the distance $x = AK$.
- (vii) Record M and evaluate $y = (x - 5)$, $x = (d - x)$ and $v = \frac{x}{y}$.
- (ix) Repeat the experiment for $M = 40 \text{ g}$, 60 g , 80 g and 100 g . In each case, evaluate y , x and v .
- (x) Tabulate the results.
- (xi) Plot a graph with M on the vertical axis and v on the horizontal axis. Both axes must start from the origin (0,0).
- (xii) Determine the slope, s , of the graph.
- (xiii) Determine the intercept, c , on the vertical axis.
- (xiv) State two precautions taken to ensure accurate results.

- b) (i) Under what condition is an object said to be in a stable equilibrium?
- (ii) A uniform beam of weight 50 N has a body of weight 100 N hung from one end of it. If the beam is 12 m long, determine the distance of the support from a 100 N body for it to balance horizontally.



Alternative Practical1 On Physics

Paul C. Mocombe



Alternative Practical1 On Physics:

Questions and Answers B. L. N. Ndupu, Pius N. Okeke, 1983 **Practical Physics (Alternative A).** ,1951

Regulations for Certificate Examinations with List of Books and Periods Prescribed Oxford and Cambridge Schools Examination Board, 1940 **Elementary Geology** Charles Bird, 1898 **Theoretical Mechanics** John Edward Taylor, 1897 Practical Physics (Alternative Paper). , 1946 Mind, Body, and Consciousness in Society Paul C. Mocombe, 2018-12-21 This book explores the nature of learning and development in the philosophy of phenomenological structuralism which represents an effort to resolve the structure agency problematic of the social sciences within structurationist sociological theory Through the analysis and critique of structurationist sociology the book outlines the underlying tenets of this problematic It goes on to synthesize Haitian ontology and epistemology phenomenology Althusserian structural Marxism quantum mechanics and Ludwig Wittgenstein s notion of language games As such it offers an alternative reading of the structure agency problematic which holds on to the notions of structure duality dualism and the individual s rational ability to choose to account for the constitution of the individual and society in and as the resource framework of the earth In the final analysis the study outlines the implications for this social ontology in the domain of learning and development It utilizes two case studies black America and Haiti to highlight its conclusions that learning and development in this phenomenological structuralism are both Vygotskyian and Chomskyian A synopsis of the book by Paul can be seen here https://youtu.be/2A_OCxQeUW4 **Higher Local Examinations** University of Cambridge, 1886 **Local Examinations** University of Cambridge, 1890 **The Student's Handbook to the University and Colleges of Cambridge** ,1940 **Advanced building construction, by the author of 'Notes on building construction'.** Percy Gaillemard L. Smith, 1896 **A Guide to Degrees in Arts, Science, Literature, Law, Music, and Divinity** Edwin Wooton, 1883 *Practical Physics, Alternative Paper (Science IV A.).* , 1950 The Black/White Academic Achievement Gap and Mocombe's Reading Room Series Curriculum Paul C. Mocombe, 2020-09-04 This work explores the concept of structural reproduction and differentiation through the origins of and basis for Paul C Mocombe s Mocombeian Strategy 2005 and Reading Room Curriculum published as Mocombe s Reading Room Series 2007 It highlights how black American practical consciousness and the academic achievement gap are a product of capitalist forces relations of production and their ideological apparatuses As such it is argued here that to resolve the gap black Americans should be treated as immigrant students against their structurally differentiated identities Practical Physics. Alternative B. ,1949 *Elementary Physiography* John Thornton, 1896 **An Introduction to Machine Drawing and Design** David Allan Low, 1898 **Earth-knowledge** William Jerome Harrison, Henry Rowland Wakefield, 1897 *Cambridge University Reporter* University of Cambridge, 1966 *Quarterly literary advertiser* ,1887

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