

2024 WASSCE SUPER MOCK PHYSICS 2

PHYSICS

PAPER 2

ESSAY

[60 marks]

1½ hours

Answer **eight** questions in all; **five** questions from part I and **three** questions from part II.

PART I

[15 marks]

Answer any **five** questions from this part.

All questions carry **equal** marks.

1. Deduce the unit of the following expression:

$$y = k\sqrt{\frac{l}{a}} \quad (l = \text{length, } a = \text{acceleration, } k = \text{dimensional constant}) \quad [3 \text{ marks}]$$

2. A uniform 100cm meter rule balance on a knife edge at the 65cm mark when a mass of 50g is hung at the 85cm mark. What is the weight of the rule? [3 marks]

3. State the **three** (3) types of magnetic materials. [3marks]

4. Calculate the lateral displacement in a glass if the refractive index is 1.5 and the thickness is 3.0 cm. [3 marks]

5.

- a) Explain why it is desirable to install an air conditioner near the ceiling of a room and not close to the floor. [2 marks]
 b) Briefly explain **one** (1) use of *LASER* in Medicine. [1 mark]

6.

- a. ${}^2_1\text{H} + {}^2_1\text{H} \rightarrow X + {}^3_0\text{n}$
 b. ${}^1_0\text{n} + {}^{235}_{92}\text{U} \rightarrow {}^{141}_{56}\text{Ba} + X + 3{}^1_0\text{n}$ [3 marks]

7. State in words *Kirchhoff's laws of electrical network*. [3 marks]

2014 Wassece Physics Practical Question Paper

Daniel F McAuley



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Table of Contents 2014 Wassece Physics Practical Question Paper

1. Understanding the eBook 2014 Wassece Physics Practical Question Paper
 - The Rise of Digital Reading 2014 Wassece Physics Practical Question Paper
 - Advantages of eBooks Over Traditional Books
2. Identifying 2014 Wassece 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 2014 Wassece Physics Practical Question Paper
 - User-Friendly Interface
4. Exploring eBook Recommendations from 2014 Wassece Physics Practical Question Paper
 - Personalized Recommendations
 - 2014 Wassece Physics Practical Question Paper User Reviews and Ratings
 - 2014 Wassece Physics Practical Question Paper and Bestseller Lists
5. Accessing 2014 Wassece Physics Practical Question Paper Free and Paid eBooks
 - 2014 Wassece Physics Practical Question Paper Public Domain eBooks
 - 2014 Wassece Physics Practical Question Paper eBook Subscription Services

- 2014 Wassce Physics Practical Question Paper Budget-Friendly Options
- 6. Navigating 2014 Wassce Physics Practical Question Paper eBook Formats
 - ePub, PDF, MOBI, and More
 - 2014 Wassce Physics Practical Question Paper Compatibility with Devices
 - 2014 Wassce Physics Practical Question Paper Enhanced eBook Features
- 7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of 2014 Wassce Physics Practical Question Paper
 - Highlighting and Note-Taking 2014 Wassce Physics Practical Question Paper
 - Interactive Elements 2014 Wassce Physics Practical Question Paper
- 8. Staying Engaged with 2014 Wassce Physics Practical Question Paper
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers 2014 Wassce Physics Practical Question Paper
- 9. Balancing eBooks and Physical Books 2014 Wassce Physics Practical Question Paper
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection 2014 Wassce Physics Practical Question Paper
- 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
- 11. Cultivating a Reading Routine 2014 Wassce Physics Practical Question Paper
 - Setting Reading Goals 2014 Wassce Physics Practical Question Paper
 - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of 2014 Wassce Physics Practical Question Paper
 - Fact-Checking eBook Content of 2014 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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