#### QUESTION 11

The circuit diagram shows a circuit consisting of a battery of negligible resistance, two ammeters also of negligible resistance, three resistors and two high resistance voltmeters.

The reading on A<sub>1</sub> is 1A.



- 11.1 Define the term electric current. (2)
- 11.2 Complete the following sentence by filling in the missing words.
  - Resistors in series divide (11.2.1) ... and resistors in parallel divide (11.2.2) ... (2)
- 11.3 Calculate the:
  - 11.3.1 Effective resistance of the parallel combination of resistors (3)
  - 11.3.2 Total resistance of the circuit (2)
  - 11.3.3 Amount of charge passing through ammeter A<sub>2</sub> in 5 seconds (5)
- 11.4 How does the potential difference across the 6 Ω resistor compare to the potential difference across the 12 Ω resistor?

Write down only LESS THAN, GREATER THAN OR EQUAL TO.

Give a reason for the answer. (3)

(2) [19]

11.5 If the 6 Ω-resistor 'burns out' will the total resistance of the circuit INCREASE, DECREASE or REMAIN THE SAME?

# **Grade 10 Paper1 Physical Science**

**JA Banks** 

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## **Table of Contents Grade 10 Paper1 Physical Science**

- 1. Understanding the eBook Grade 10 Paper1 Physical Science
  - o The Rise of Digital Reading Grade 10 Paper1 Physical Science
  - Advantages of eBooks Over Traditional Books
- 2. Identifying Grade 10 Paper1 Physical Science
  - Exploring Different Genres
  - $\circ\,$  Considering Fiction vs. Non-Fiction
  - Determining Your Reading Goals
- 3. Choosing the Right eBook Platform
  - $\circ \ \ Popular \ eBook \ Platforms$
  - Features to Look for in an Grade 10 Paper1 Physical Science
  - User-Friendly Interface
- 4. Exploring eBook Recommendations from Grade 10 Paper1 Physical Science
  - Personalized Recommendations

- Grade 10 Paper1 Physical Science User Reviews and Ratings
- Grade 10 Paper1 Physical Science and Bestseller Lists
- 5. Accessing Grade 10 Paper1 Physical Science Free and Paid eBooks
  - Grade 10 Paper1 Physical Science Public Domain eBooks
  - Grade 10 Paper1 Physical Science eBook Subscription Services
  - Grade 10 Paper1 Physical Science Budget-Friendly Options
- 6. Navigating Grade 10 Paper1 Physical Science eBook Formats
  - ∘ ePub, PDF, MOBI, and More
  - Grade 10 Paper1 Physical Science Compatibility with Devices
  - Grade 10 Paper1 Physical Science Enhanced eBook Features
- 7. Enhancing Your Reading Experience
  - o Adjustable Fonts and Text Sizes of Grade 10 Paper1 Physical Science
  - Highlighting and Note-Taking Grade 10 Paper1 Physical Science
  - Interactive Elements Grade 10 Paper1 Physical Science
- 8. Staying Engaged with Grade 10 Paper1 Physical Science
  - o Joining Online Reading Communities
  - Participating in Virtual Book Clubs
  - Following Authors and Publishers Grade 10 Paper1 Physical Science
- 9. Balancing eBooks and Physical Books Grade 10 Paper1 Physical Science
  - Benefits of a Digital Library
  - Creating a Diverse Reading Collection Grade 10 Paper1 Physical Science
- 10. Overcoming Reading Challenges
  - Dealing with Digital Eye Strain
  - Minimizing Distractions
  - Managing Screen Time
- 11. Cultivating a Reading Routine Grade 10 Paper1 Physical Science
  - Setting Reading Goals Grade 10 Paper1 Physical Science
  - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Grade 10 Paper1 Physical Science
  - Fact-Checking eBook Content of Grade 10 Paper1 Physical Science

- 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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