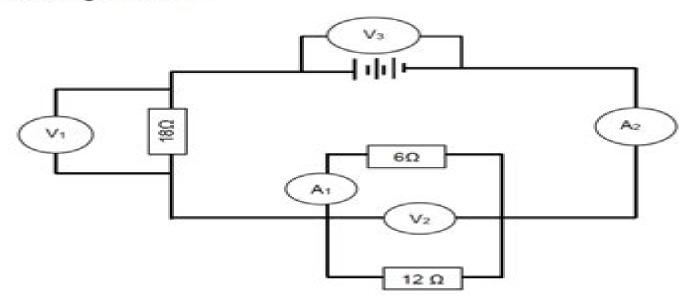
QUESTION 11

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 A₁ 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 A₂ 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?

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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
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
- 3. Choosing the Right eBook Platform
 - 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
 - o Grade 10 Paper1 Physical Science User Reviews and Ratings
 - o 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
 - o Grade 10 Paper1 Physical Science Enhanced eBook Features
- 7. Enhancing Your Reading Experience
 - 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
 - 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
 - o 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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