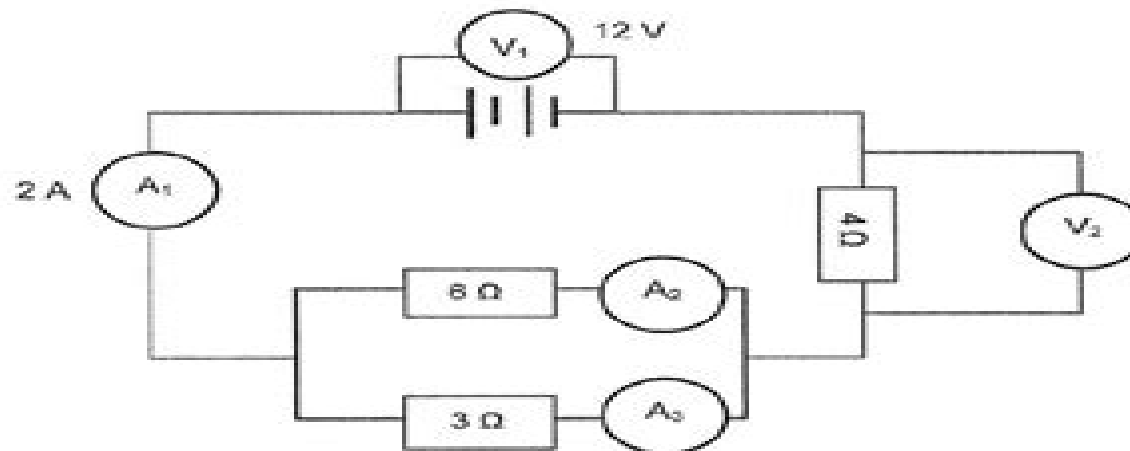


- 3.3.1 State Coulomb's Law in words. (2)  
3.3.2 Calculate the net force acting on charge  $Q_3$  due to the presence of  $Q_1$  and  $Q_2$ . (7)  
3.3.3 Define electric field at a point in words. (2)  
3.3.4 Draw the net electric field pattern due to charges  $Q_2$  and  $Q_3$ . (3)  
3.3.5 Calculate the magnitude and direction of electric field between  $Q_3$  and  $Q_1$ . (3)  
[27]

**QUESTION 4**

In the circuit diagram below the reading on voltmeter  $V_1$  is 12 V and the reading on ammeter  $A_1$  is 2 A.



Calculate the:

- 4.1 Reading on  $V_2$  (3)  
4.2 Reading on  $A_2$  (4)  
4.3 Amount of charge that flows through ammeter  $A_1$  in 120 s (3)

[10]

# Physical Science Controlled Test

**RD Boyd**



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## **Table of Contents Physical Science Controlled Test**

1. Understanding the eBook Physical Science Controlled Test
  - The Rise of Digital Reading Physical Science Controlled Test
  - Advantages of eBooks Over Traditional Books
2. Identifying Physical Science Controlled Test
  - 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 Physical Science Controlled Test
  - User-Friendly Interface
4. Exploring eBook Recommendations from Physical Science Controlled Test
  - Personalized Recommendations
  - Physical Science Controlled Test User Reviews and Ratings
  - Physical Science Controlled Test and Bestseller Lists

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