Question 4

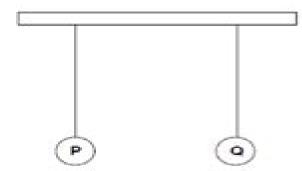
- 4 A bullet is fired at 970 m·s⁻¹ in an easterly direction. It reaches a target 200 m away, only 0,23 seconds later. Calculate:
 - 4.1 the magnitude and direction of the acceleration of the bullet
 - 4.2the magnitude of the velocity with which the bullet strikes the target.

(3)

[06]

Question 5

Two identical insulated, graphite-coated polystyrene spheres are suspended from threads. The spheres are held a small distance apart. The charges on the Spheres P and Q are – 2,4 nC and + 5,6 nC respectively.



When the spheres are released they move towards each other.

5.1 Explain why the spheres move towards each other when they are released.

The two spheres now touch each other and then separate.

- 5.2 Calculate the charge on each sphere after they touch and separate. (2)
- 5.3 Calculate the number of electrons transferred during (4) contact.
- 5,4 Which way will electrons move? Write only from P to
 Q, or from Q to P, or neither way?

 (1)
- 5.5 Explain your answer to Question 5.4. (2)

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- 1. Understanding the eBook Grade 1physical Science Exam Papers 21
 - The Rise of Digital Reading Grade 1physical Science Exam Papers 21
 - Advantages of eBooks Over Traditional Books
- 2. Identifying Grade 1physical Science Exam Papers 21
 - 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 1physical Science Exam Papers 21
 - User-Friendly Interface
- 4. Exploring eBook Recommendations from Grade 1physical Science Exam Papers 21
 - Personalized Recommendations
 - Grade 1physical Science Exam Papers 21 User Reviews and Ratings

- Grade 1physical Science Exam Papers 21 and Bestseller Lists
- 5. Accessing Grade 1physical Science Exam Papers 21 Free and Paid eBooks
 - Grade 1physical Science Exam Papers 21 Public Domain eBooks
 - Grade 1physical Science Exam Papers 21 eBook Subscription Services
 - o Grade 1 physical Science Exam Papers 21 Budget-Friendly Options
- 6. Navigating Grade 1 physical Science Exam Papers 21 eBook Formats
 - o ePub, PDF, MOBI, and More
 - Grade 1physical Science Exam Papers 21 Compatibility with Devices
 - Grade 1physical Science Exam Papers 21 Enhanced eBook Features
- 7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Grade 1physical Science Exam Papers 21
 - Highlighting and Note-Taking Grade 1physical Science Exam Papers 21
 - Interactive Elements Grade 1physical Science Exam Papers 21
- 8. Staying Engaged with Grade 1physical Science Exam Papers 21
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Grade 1physical Science Exam Papers 21
- 9. Balancing eBooks and Physical Books Grade 1physical Science Exam Papers 21
 - $\circ\,$ Benefits of a Digital Library
 - Creating a Diverse Reading Collection Grade 1physical Science Exam Papers 21
- 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
- 11. Cultivating a Reading Routine Grade 1 physical Science Exam Papers 21
 - Setting Reading Goals Grade 1physical Science Exam Papers 21
 - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Grade 1physical Science Exam Papers 21
 - Fact-Checking eBook Content of Grade 1physical Science Exam Papers 21
 - 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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