

**NATIONAL
 SENIOR CERTIFICATE**

GRADE 12

SEPTEMBER 2021

PHYSICAL SCIENCES P1

MARKS: 150

TIME: 3 hours

The question paper consists of 15 pages, including 3 data sheets

QUESTION 10: POTENTIAL ENERGIES

10. The kinetic energy of a car moving at velocity v is K . The velocity of the car changes to $3v$. What is the new kinetic energy of the car?

- A. $18K$
- B. $10K$
- C. $2K$
- D. $4K$

(2)

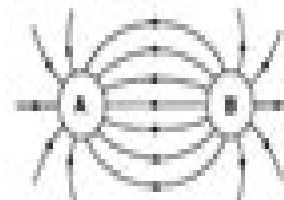
10. A sound source approaches a stationary observer at constant velocity.

Which ONE of the following describes how the observed frequency and wavelength differ from that of the sound source?

	Observed wavelength	Observed frequency
A	Greater than	Greater than
B	Less than	Less than
C	Less than	Greater than
D	Greater than	Less than

(2)

10. The electric field pattern between two charged spheres, A and B, is shown below.



Which ONE of the following statements regarding the charge on spheres A and B is CORRECT?

- A. Sphere A is negatively charged, and sphere B is positively charged.
- B. Sphere A is positively charged, and sphere B is negatively charged.
- C. Spheres A and B are both positively charged.
- D. Spheres A and B are both negatively charged.

(2)

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Table of Contents Gradephysical Science Papermemorandum September

1. Understanding the eBook Gradephysical Science Papermemorandum September
 - The Rise of Digital Reading Gradephysical Science Papermemorandum September
 - Advantages of eBooks Over Traditional Books
2. Identifying Gradephysical Science Papermemorandum September
 - 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 Gradephysical Science Papermemorandum September
 - User-Friendly Interface
4. Exploring eBook Recommendations from Gradephysical Science Papermemorandum September
 - Personalized Recommendations
 - Gradephysical Science Papermemorandum September User Reviews and Ratings

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