

**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. $16K$
- B. $18K$
- C. $2K$
- D. $4K$

(2)

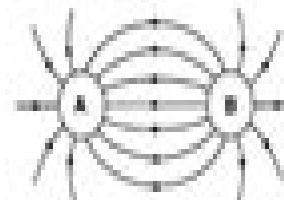
10. A sound source approaches a stationary observer at constant velocity.

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)

Physical Science P1 September 2013 Memorandum

Ensheng Dong



Physical Science P1 September 2013 Memorandum:

Physical Science P1 September 2013 Memorandum: Bestsellers in 2023 The year 2023 has witnessed a noteworthy surge in literary brilliance, with numerous compelling novels enthralling the hearts of readers worldwide. Lets delve into the realm of bestselling books, exploring the fascinating narratives that have charmed audiences this year. The Must-Read : Colleen Hoover's "It Ends with Us" This poignant tale of love, loss, and resilience has captivated readers with its raw and emotional exploration of domestic abuse. Hoover skillfully weaves a story of hope and healing, reminding us that even in the darkest of times, the human spirit can triumph. Physical Science P1 September 2013 Memorandum : Taylor Jenkins Reids "The Seven Husbands of Evelyn Hugo" This spellbinding historical fiction novel unravels the life of Evelyn Hugo, a Hollywood icon who defies expectations and societal norms to pursue her dreams. Reids compelling storytelling and compelling characters transport readers to a bygone era, immersing them in a world of glamour, ambition, and self-discovery. Physical Science P1 September 2013 Memorandum : Delia Owens "Where the Crawdads Sing" This evocative coming-of-age story follows Kya Clark, a young woman who grows up alone in the marshes of North Carolina. Owens crafts a tale of resilience, survival, and the transformative power of nature, captivating readers with its evocative prose and mesmerizing setting. These popular novels represent just a fraction of the literary treasures that have emerged in 2023. Whether you seek tales of romance, adventure, or personal growth, the world of literature offers an abundance of engaging stories waiting to be discovered. The novel begins with Richard Papen, a bright but troubled young man, arriving at Hampden College. Richard is immediately drawn to the group of students who call themselves the Classics Club. The club is led by Henry Winter, a brilliant and charismatic young man. Henry is obsessed with Greek mythology and philosophy, and he quickly draws Richard into his world. The other members of the Classics Club are equally as fascinating. Bunny Corcoran is a wealthy and spoiled young man who is always looking for a good time. Charles Tavis is a quiet and reserved young man who is deeply in love with Henry. Camilla Macaulay is a beautiful and intelligent young woman who is drawn to the power and danger of the Classics Club. The students are all deeply in love with Morrow, and they are willing to do anything to please him. Morrow is a complex and mysterious figure, and he seems to be manipulating the students for his own purposes. As the students become more involved with Morrow, they begin to commit increasingly dangerous acts. The Secret History is a brilliant and thrilling novel that will keep you wondering until the very end. The novel is a cautionary tale about the dangers of obsession and the power of evil.

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Table of Contents Physical Science P1 September 2013 Memorandum

1. Understanding the eBook Physical Science P1 September 2013 Memorandum
 - The Rise of Digital Reading Physical Science P1 September 2013 Memorandum
 - Advantages of eBooks Over Traditional Books
2. Identifying Physical Science P1 September 2013 Memorandum
 - 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 P1 September 2013 Memorandum
 - User-Friendly Interface
4. Exploring eBook Recommendations from Physical Science P1 September 2013 Memorandum
 - Personalized Recommendations
 - Physical Science P1 September 2013 Memorandum User Reviews and Ratings
 - Physical Science P1 September 2013 Memorandum and Bestseller Lists
5. Accessing Physical Science P1 September 2013 Memorandum Free and Paid eBooks
 - Physical Science P1 September 2013 Memorandum Public Domain eBooks
 - Physical Science P1 September 2013 Memorandum eBook Subscription Services
 - Physical Science P1 September 2013 Memorandum Budget-Friendly Options
6. Navigating Physical Science P1 September 2013 Memorandum eBook Formats
 - ePub, PDF, MOBI, and More
 - Physical Science P1 September 2013 Memorandum Compatibility with Devices
 - Physical Science P1 September 2013 Memorandum Enhanced eBook Features
7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Physical Science P1 September 2013 Memorandum
 - Highlighting and Note-Taking Physical Science P1 September 2013 Memorandum
 - Interactive Elements Physical Science P1 September 2013 Memorandum
8. Staying Engaged with Physical Science P1 September 2013 Memorandum

- Joining Online Reading Communities
- Participating in Virtual Book Clubs
- Following Authors and Publishers Physical Science P1 September 2013 Memorandum
- 9. Balancing eBooks and Physical Books Physical Science P1 September 2013 Memorandum
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Physical Science P1 September 2013 Memorandum
- 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
- 11. Cultivating a Reading Routine Physical Science P1 September 2013 Memorandum
 - Setting Reading Goals Physical Science P1 September 2013 Memorandum
 - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Physical Science P1 September 2013 Memorandum
 - Fact-Checking eBook Content of Physical Science P1 September 2013 Memorandum
 - 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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