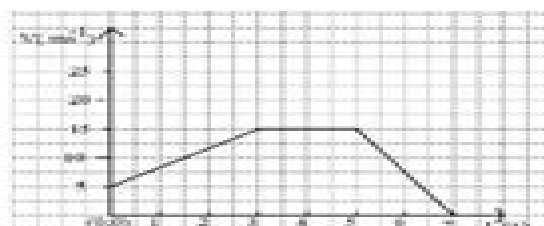


- (b) (i) State the universal law of gravitation. [3]
- (ii) Express it in a mathematical form. (Explain the symbols used.)
- (iii) State the value of universal gravitation constant in S.I. unit.
- (c) Using the following velocity time graph of a body answer the following questions. [4]



- (i) During which time intervals is the body moving with variable velocity?
- (ii) What is the acceleration of the body during the interval 3 s to 5 s?
- (iii) What is the displacement of the body in the last four seconds of its motion?

Question 6

- (a) (i) Differentiate between the terms supersonic and ultrasonic. [3]
- (ii) State two uses of ultrasound.
- (b) State three factors on which the speed of sound depends. [3]
- (c) The speed of sound in air is 320 ms^{-1} and in water it is 1600 ms^{-1} . It takes 2.5 s [4]
for sound to reach a certain distance from the source placed in air.
- (i) Find this distance.
- (ii) How much time will it take for sound to travel the same distance when the source is in water?

Grade 9 Igcse Physics Past Papers

Ying Liu



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Table of Contents Grade 9 Igcse Physics Past Papers

1. Understanding the eBook Grade 9 Igcse Physics Past Papers
 - The Rise of Digital Reading Grade 9 Igcse Physics Past Papers
 - Advantages of eBooks Over Traditional Books
2. Identifying Grade 9 Igcse Physics Past Papers
 - 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 9 Igcse Physics Past Papers
 - User-Friendly Interface
4. Exploring eBook Recommendations from Grade 9 Igcse Physics Past Papers
 - Personalized Recommendations
 - Grade 9 Igcse Physics Past Papers User Reviews and Ratings
 - Grade 9 Igcse Physics Past Papers and Bestseller Lists

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