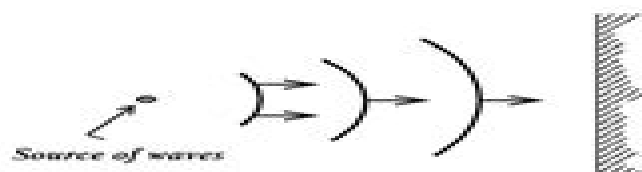
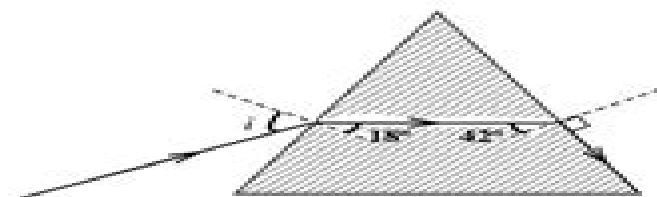


- (b) An empty bottle is corked when air inside is at 150°C and at standard atmospheric pressure. Calculate the temperature to which the air must be heated for the cork to blow out, if it is able to blow out when the pressure of the air exceeds 1.3 times the standard atmospheric pressure. State the assumptions you have made. (07 marks)
5. (a) Describe the composition of the ${}_{11}^{23}\text{Na}$ atom. (03 marks)
- (b) A radioactive nuclide emits an alpha particle and turns into another nuclide Y.
- Write a balanced equation to represent this nuclear change. (03 marks)
 - How would the nuclide X be affected if a beta particle was emitted instead of an alpha particle. (02 marks)
 - Compare the nature of and properties of an alpha particle with those of a beta particle (04 marks)
- (c) Describe briefly how X-rays are produced. (Diagram of the X-ray tube is not required). (04 marks)
6. (a) List three differences and three similarities between sound waves and light waves. (06 marks)
- (b)



The above diagram shows circular waves propagating towards a plane reflector.

- Draw a diagram to show how the waves will be reflected. (02 marks)
 - Calculate the frequency of the waves if their velocity and wavelength are 5.0 m s^{-1} and 0.5 m respectively. (03 marks)
- (c) A man standing midway between two cliffs makes a loud sound. He hears the first echo after 3 s. Calculate the distance between the two cliffs. (05 marks)
7. (a) Describe a simple method of measuring the refractive index of glass in form of a glass block. (06 marks)
- (b) (i) Explain, with the aid of a diagram, the term critical angle. (04 marks)
- (ii) Light of the same wavelength is incident at an angle, i , on a glass prism. The light is refracted and follows the path shown in the figure below.



Find the angle of incidence, i .

(06 marks)

8. (a) Give the advantages of alternating current over direct current in power transmission. (02 marks)
- (b) Describe with the aid of a diagram, the construction and action of a transformer. (05 marks)

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1. Understanding the eBook Answers For Physics Paper 2001
 - The Rise of Digital Reading Answers For Physics Paper 2001
 - Advantages of eBooks Over Traditional Books
2. Identifying Answers For Physics Paper 2001
 - 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 Answers For Physics Paper 2001
 - User-Friendly Interface
4. Exploring eBook Recommendations from Answers For Physics Paper 2001
 - Personalized Recommendations
 - Answers For Physics Paper 2001 User Reviews and Ratings
 - Answers For Physics Paper 2001 and Bestseller Lists

5. Accessing Answers For Physics Paper 2001 Free and Paid eBooks
 - Answers For Physics Paper 2001 Public Domain eBooks
 - Answers For Physics Paper 2001 eBook Subscription Services
 - Answers For Physics Paper 2001 Budget-Friendly Options
6. Navigating Answers For Physics Paper 2001 eBook Formats
 - ePub, PDF, MOBI, and More
 - Answers For Physics Paper 2001 Compatibility with Devices
 - Answers For Physics Paper 2001 Enhanced eBook Features
7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Answers For Physics Paper 2001
 - Highlighting and Note-Taking Answers For Physics Paper 2001
 - Interactive Elements Answers For Physics Paper 2001
8. Staying Engaged with Answers For Physics Paper 2001
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Answers For Physics Paper 2001
9. Balancing eBooks and Physical Books Answers For Physics Paper 2001
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Answers For Physics Paper 2001
10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
11. Cultivating a Reading Routine Answers For Physics Paper 2001
 - Setting Reading Goals Answers For Physics Paper 2001
 - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of Answers For Physics Paper 2001
 - Fact-Checking eBook Content of Answers For Physics Paper 2001
 - 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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