N.5 Name: ( ) Date: \_\_\_\_

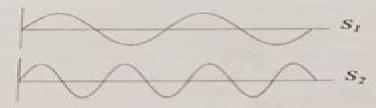
- In a Young's alias experiment to produce interference fringes on a screen, the separation of the interference fringes is increased by increasing
  - (1) the distance between the slits and the screen.
  - (2) the wavelength of the light.
  - (3) the distance between the source and the slits.
  - A. (1) and (2) only

B. (2) and (3) only

C. (1) and (3) only

- D. (1), (2) and (3)
- 2. A diffraction grating ruled with 5 000 lines per cm is illuminated normally by white light. If the wavelengths for yellow light and violet light are 600 nm and 400 nm respectively, which of the following statements is false?
  - A. The central image is white.
  - B. The violet end of the first-order spectrum is closer to the central image than is the red end of the first-order spectrum.
  - C. The angular displacement of the second-order image of yellow light from the central image is sin<sup>-1</sup> 0.6.
  - D. There is no fourth-order image for violet light.

3.



The figure above shows each of the stationary traces  $S_1$  and  $S_2$  observed on the screen of a cathode ray oscilloscope connected to a microphone, when two tuning forks  $F_1$  and  $F_2$  respectively are sounded in turn. (The time base remains the same in each case.) Which of the following statements is/are correct?

- (1) The period of F1 is greater than the period of F2.
- (2) The pitch of F1 is greater than the pitch of F2.
- (3) The speed of sound from  $F_1$  is greater than the speed of sound from  $F_2$ .
- A. (1) only

B. (3) only

C. (1) and (2) only

D. (2) and (3) only

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## **Table of Contents 13 Dse Paper 1 Physics**

- 1. Understanding the eBook 13 Dse Paper 1 Physics
  - The Rise of Digital Reading 13 Dse Paper 1 Physics
  - Advantages of eBooks Over Traditional Books
- 2. Identifying 13 Dse Paper 1 Physics
  - Exploring Different Genres
  - o Considering Fiction vs. Non-Fiction
  - Determining Your Reading Goals
- 3. Choosing the Right eBook Platform
  - Popular eBook Platforms
  - Features to Look for in an 13 Dse Paper 1 Physics
  - User-Friendly Interface
- 4. Exploring eBook Recommendations from 13 Dse Paper 1 Physics
  - Personalized Recommendations
  - 13 Dse Paper 1 Physics User Reviews and Ratings
  - 13 Dse Paper 1 Physics and Bestseller Lists

- 5. Accessing 13 Dse Paper 1 Physics Free and Paid eBooks
  - o 13 Dse Paper 1 Physics Public Domain eBooks
  - 13 Dse Paper 1 Physics eBook Subscription Services
  - 13 Dse Paper 1 Physics Budget-Friendly Options
- 6. Navigating 13 Dse Paper 1 Physics eBook Formats
  - o ePub, PDF, MOBI, and More
  - 13 Dse Paper 1 Physics Compatibility with Devices
  - 13 Dse Paper 1 Physics Enhanced eBook Features
- 7. Enhancing Your Reading Experience
  - Adjustable Fonts and Text Sizes of 13 Dse Paper 1 Physics
  - Highlighting and Note-Taking 13 Dse Paper 1 Physics
  - Interactive Elements 13 Dse Paper 1 Physics
- 8. Staying Engaged with 13 Dse Paper 1 Physics
  - Joining Online Reading Communities
  - Participating in Virtual Book Clubs
  - Following Authors and Publishers 13 Dse Paper 1 Physics
- 9. Balancing eBooks and Physical Books 13 Dse Paper 1 Physics
  - Benefits of a Digital Library
  - Creating a Diverse Reading Collection 13 Dse Paper 1 Physics
- 10. Overcoming Reading Challenges
  - o Dealing with Digital Eye Strain
  - Minimizing Distractions
  - Managing Screen Time
- 11. Cultivating a Reading Routine 13 Dse Paper 1 Physics
  - Setting Reading Goals 13 Dse Paper 1 Physics
  - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of 13 Dse Paper 1 Physics
  - Fact-Checking eBook Content of 13 Dse Paper 1 Physics
  - 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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