

10% of the original intensity. Assuming that the polarizer-analyzer any light, the angle by which the analyzer need to be rotated further to reduce the output intensity to be zero is

- (a) 45° (b) 71.6°
 (c) 90° (d) 18.4°

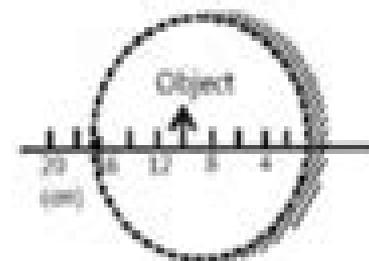
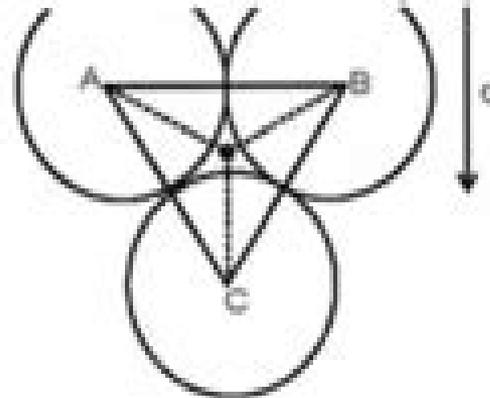
2. An open glass tube is immersed in mercury in such a way that a length of 8 cm extends above the mercury level. The open end of the tube is then closed and sealed and the tube is raised vertically up by additional 46 cm. What will be length of the air column above mercury in the tube now? (Atmospheric pressure = 76 cm of Hg)

- (a) 16 cm (b) 22 cm
 (c) 38 cm (d) 6 cm

3. A particle of mass m is fixed to one end of a light spring having force constant k and unstretched length l . The other end is fixed. The system is given an angular speed ω about the fixed end of the spring such that it rotates in a circle in gravity free space. Then the stretch in the spring is

- (a) $\frac{13}{23}$ (b) $\frac{13}{15}$
 (c) $\frac{15}{13}$ (d) $\frac{23}{13}$

5.



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Table of Contents Iit Jee 2question Paper

1. Understanding the eBook Iit Jee 2question Paper
 - The Rise of Digital Reading Iit Jee 2question Paper
 - Advantages of eBooks Over Traditional Books
2. Identifying Iit Jee 2question Paper
 - 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 Iit Jee 2question Paper
 - User-Friendly Interface
4. Exploring eBook Recommendations from Iit Jee 2question Paper
 - Personalized Recommendations
 - Iit Jee 2question Paper User Reviews and Ratings

- Iit Jee 2question Paper and Bestseller Lists
- 5. Accessing Iit Jee 2question Paper Free and Paid eBooks
 - Iit Jee 2question Paper Public Domain eBooks
 - Iit Jee 2question Paper eBook Subscription Services
 - Iit Jee 2question Paper Budget-Friendly Options
- 6. Navigating Iit Jee 2question Paper eBook Formats
 - ePub, PDF, MOBI, and More
 - Iit Jee 2question Paper Compatibility with Devices
 - Iit Jee 2question Paper Enhanced eBook Features
- 7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Iit Jee 2question Paper
 - Highlighting and Note-Taking Iit Jee 2question Paper
 - Interactive Elements Iit Jee 2question Paper
- 8. Staying Engaged with Iit Jee 2question Paper
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Iit Jee 2question Paper
- 9. Balancing eBooks and Physical Books Iit Jee 2question Paper
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Iit Jee 2question Paper
- 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
- 11. Cultivating a Reading Routine Iit Jee 2question Paper
 - Setting Reading Goals Iit Jee 2question Paper
 - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Iit Jee 2question Paper
 - Fact-Checking eBook Content of Iit Jee 2question Paper
 - 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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web jun 1 2023 aisi 4145 exhibits excellent strength toughness and wear resistance as a low alloy steel grade the minimum yield strength of aisi 4145 is 89 ksi while the ultimate tensile strength is between 125 140 ksi depending on the heat treatment conditions

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web as compared to 4140 the 4145 mod grade has higher levels of chromium and molybdenum which will provide much deeper hardening into the steel after austenitizing quenching and tempering this alloy should not be confused with aisi 4145 as the chemical limits for the modified version are much higher