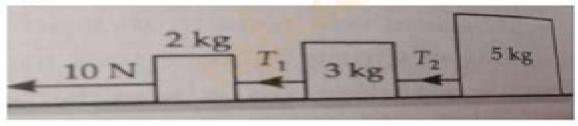
- 12. At an instant t, the co ordinates of a particle are $x = at^2$, $y = bt^2$ and z = 0. The magnitude of velocity of particle at an instant t is
 - A. $t\sqrt{(a^2+b^2)}$
 - B. 7
 - C. 70
 - D. $2t \sqrt{a^{2+}b^2}$
- 13. Critical velocity of the liquid
 - A. decreases when radius decreases
 - B. increases when radius increases
 - C. decreases when density increases
 - D. increases when density increases
- 14. An object is moving on a plane surface with uniform velocity 10m/sec in the presence of a force of 10 N. The frictional force between the object and the surface is
 - A 1 N
 - B. -10 N
 - C. 1014
 - D. 100 N
- 15. Three blocks of masses 2kg, 3kg and 5kg are connected to each other with a light string and are then placed on a frictionless surface. The system is pulled by a force F= 10 N, then the tension T₁ is
 - A. 1 N
 - B. 5 M
 - C. 8 N
 - D. 10 N



For Question No. 16 - 18

Two statements are given – one labelled Assertion (A) and the other labelled Reason (R). Select the correct answer to these questions from the codes (A), (B), (C) and (D) as given below.

- A. Both A and R are true and R is the correct explanation of A
- B. Both A and R are true but R is NOT the correct explanation of A
- C. A is true but R is false
- D. A is false and R is also false.
- Assertion (A): Frictional forces are conservative forces.
 Reason (R): Polishing surfaces always reduces friction.

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Andrew Olesnicky

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- 1. Understanding the eBook Grade 11 Physics Question Paper Gauteng
 - The Rise of Digital Reading Grade 11 Physics Question Paper Gauteng
 - Advantages of eBooks Over Traditional Books
- 2. Identifying Grade 11 Physics Question Paper Gauteng
 - 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 11 Physics Question Paper Gauteng
 - User-Friendly Interface
- 4. Exploring eBook Recommendations from Grade 11 Physics Question Paper Gauteng
 - Personalized Recommendations
 - Grade 11 Physics Question Paper Gauteng User Reviews and Ratings
 - Grade 11 Physics Question Paper Gauteng and Bestseller Lists
- 5. Accessing Grade 11 Physics Question Paper Gauteng Free and Paid eBooks
 - Grade 11 Physics Question Paper Gauteng Public Domain eBooks
 - Grade 11 Physics Question Paper Gauteng eBook Subscription Services
 - Grade 11 Physics Question Paper Gauteng Budget-Friendly Options
- 6. Navigating Grade 11 Physics Question Paper Gauteng eBook Formats
 - ePub, PDF, MOBI, and More
 - Grade 11 Physics Question Paper Gauteng Compatibility with Devices
 - Grade 11 Physics Question Paper Gauteng Enhanced eBook Features
- 7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Grade 11 Physics Question Paper Gauteng
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 - Interactive Elements Grade 11 Physics Question Paper Gauteng

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