

QUESTION 2

(10 MARKS)

- 2.1 An object of mass 20 kg rests in an inclined plane forming 30° to the horizontal. The coefficient of friction between the surfaces is 0,5. (2 x5)

Calculate:

- 2.1.1 The component of weight of the block perpendicular to the plane

$$\begin{aligned} \bullet \text{ Perpendicular component} &= W \cos \theta \\ &= 20 \times 9,81 \times \cos 30^\circ \\ &= 166,28 \text{ N} \end{aligned}$$

- 2.1.2 The component of weight of the block parallel to the plane

$$\begin{aligned} \bullet \text{ Parallel component} &= W \sin \theta \\ &= 20 \times 9,81 \times \sin 30^\circ = 98,10 \text{ N} \end{aligned}$$

- 2.1.3 The frictional force

$$\begin{aligned} \bullet F_f &= \mu W \cos \theta \\ &= 0,5 \times 166,28 = 83,14 \text{ N} \end{aligned}$$

- 2.1.4 The smallest parallel force to the plane that will move the body up the plane

$$\begin{aligned} \bullet F_{\text{up}} &= \mu W \sin \theta + W \cos \theta \\ &= 83,14 + 98,10 \\ &= 181,24 \text{ N} \end{aligned}$$

- 2.1.5 The smallest parallel force to the plane that will move the body down the plane

$$\begin{aligned} \bullet F_{\text{down}} &= \mu W \sin \theta - W \cos \theta \\ &= 83,14 - 98,10 \\ &= -14,96 \text{ N} \end{aligned}$$

QUESTION 3

(15 MARKS)

- 3.1 Briefly name and briefly explain FIVE stages followed when treating hard water starting from the water source. (10)

$$\bullet \text{ Coagulation} \rightarrow \text{A coagulant such as aluminium sulphate, soda ash or other chemicals are added to the water, and rapidly mixed, so that the coagulant is circulated throughout the water.}$$

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1. Understanding the eBook November 2012 Building Science N3 Memorandum
 - The Rise of Digital Reading November 2012 Building Science N3 Memorandum
 - Advantages of eBooks Over Traditional Books
2. Identifying November 2012 Building Science N3 Memorandum
 - 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 November 2012 Building Science N3 Memorandum
 - User-Friendly Interface
4. Exploring eBook Recommendations from November 2012 Building Science N3 Memorandum
 - Personalized Recommendations
 - November 2012 Building Science N3 Memorandum User Reviews and Ratings
 - November 2012 Building Science N3 Memorandum and Bestseller Lists
5. Accessing November 2012 Building Science N3 Memorandum Free and Paid eBooks

- November 2012 Building Science N3 Memorandum Public Domain eBooks
- November 2012 Building Science N3 Memorandum eBook Subscription Services
- November 2012 Building Science N3 Memorandum Budget-Friendly Options
- 6. Navigating November 2012 Building Science N3 Memorandum eBook Formats
 - ePub, PDF, MOBI, and More
 - November 2012 Building Science N3 Memorandum Compatibility with Devices
 - November 2012 Building Science N3 Memorandum Enhanced eBook Features
- 7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of November 2012 Building Science N3 Memorandum
 - Highlighting and Note-Taking November 2012 Building Science N3 Memorandum
 - Interactive Elements November 2012 Building Science N3 Memorandum
- 8. Staying Engaged with November 2012 Building Science N3 Memorandum
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers November 2012 Building Science N3 Memorandum
- 9. Balancing eBooks and Physical Books November 2012 Building Science N3 Memorandum
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection November 2012 Building Science N3 Memorandum
- 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
- 11. Cultivating a Reading Routine November 2012 Building Science N3 Memorandum
 - Setting Reading Goals November 2012 Building Science N3 Memorandum
 - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of November 2012 Building Science N3 Memorandum
 - Fact-Checking eBook Content of November 2012 Building Science N3 Memorandum
 - 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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