

## QUESTION 2

(10 MARKS)

- 2.1 An object of mass 30 kg rests in an inclined plane forming  $30^\circ$  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

$$\begin{aligned} \bullet \text{ Perpendicular component} &= W \cos \theta \\ &= 30 \times 9,81 \times \cos 30^\circ \\ &= 249,36 \text{ N} \end{aligned}$$

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

$$\begin{aligned} \bullet \text{ Parallel component} &= W \sin \theta \\ &= 30 \times 9,81 \times \sin 30^\circ = 147,15 \text{ N} \end{aligned}$$

- 2.1.3 The frictional force

$$\begin{aligned} \bullet F_f &= \mu W \cos \theta \\ &= 0,5 \times 249,36 = 124,68 \text{ N} \end{aligned}$$

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

$$\begin{aligned} \bullet F_{\text{up}} &= \mu W \sin \theta + W \cos \theta \\ &= 147,15 + 147,15 \\ &= 294,30 \text{ N} \end{aligned}$$

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

$$\begin{aligned} \bullet F_{\text{down}} &= \mu W \sin \theta - W \cos \theta \\ &= 147,15 - 147,15 \\ &= 21,69 \text{ N} \end{aligned}$$

## QUESTION 3

(15 MARKS)

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

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

# Building Science N3 Question Paper And Memo

**Jessica J Manson**



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## **Table of Contents Building Science N3 Question Paper And Memo**

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

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