

QUESTION 2

(14 MARKS)

2.1 State Archimedes Principle

(2)

When an object is placed in a fluid it will displace a certain amount of fluid. The effect of this is to produce an upward force on the body. And the apparent weight of the body is therefore less in the fluid than it would be in a vacuum.

2.2 Name FIVE types of hydrometers

(5)

- Lactometer ✓
- Accumulation or pycnometer hydrometer ✓
- Aerometer ✓
- Alcoholometer ✓
- Salinometer ✓

any 5 marks

2.3 Explain the meaning of the following:

2.3.1 Bulk density

(2)

2.3.2 The volume of dry sand increases due to absorption of moisture.
Saturation

(2)

Saturation is a state in which all the pores or voids of a material is filled with a liquid.

2.4 Calculate the saturation co-efficient of a material which has 0.080 cm³ pores. The volume of water absorbed was 0.065 cm³.

(3)

$$\begin{aligned} \text{saturation coefficient} &= \frac{\text{volume of water absorbed}}{\text{volume of pores}} \times 100\% \\ &= \frac{0.065 \text{ cm}^3}{0.080 \text{ cm}^3} \times 100\% \\ &= 81.25 \text{ or } 81.25\% \end{aligned}$$

QUESTION 3

(10 MARKS)

3.1 Explain what is meant by the term permeability with reference to roofing materials.

(3)

The extent to which a roofing material allows water to pass through it is called its permeability.

3.2 Copy the following table in your ANSWER BOOK and complete it by writing YES, NO or FAIR in the spaces provide.

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Arturo Cuomo



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Table of Contents N2 Building Science Question Papers And Memo

1. Understanding the eBook N2 Building Science Question Papers And Memo
 - The Rise of Digital Reading N2 Building Science Question Papers And Memo
 - Advantages of eBooks Over Traditional Books
2. Identifying N2 Building Science Question Papers 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 N2 Building Science Question Papers And Memo
 - User-Friendly Interface
4. Exploring eBook Recommendations from N2 Building Science Question Papers And Memo
 - Personalized Recommendations
 - N2 Building Science Question Papers And Memo User Reviews and Ratings
 - N2 Building Science Question Papers And Memo and Bestseller Lists
5. Accessing N2 Building Science Question Papers And Memo Free and Paid eBooks
 - N2 Building Science Question Papers And Memo Public Domain eBooks
 - N2 Building Science Question Papers And Memo eBook Subscription Services
 - N2 Building Science Question Papers And Memo Budget-Friendly Options

6. Navigating N2 Building Science Question Papers And Memo eBook Formats
 - ePub, PDF, MOBI, and More
 - N2 Building Science Question Papers And Memo Compatibility with Devices
 - N2 Building Science Question Papers And Memo Enhanced eBook Features
7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of N2 Building Science Question Papers And Memo
 - Highlighting and Note-Taking N2 Building Science Question Papers And Memo
 - Interactive Elements N2 Building Science Question Papers And Memo
8. Staying Engaged with N2 Building Science Question Papers And Memo
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers N2 Building Science Question Papers And Memo
9. Balancing eBooks and Physical Books N2 Building Science Question Papers And Memo
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection N2 Building Science Question Papers And Memo
10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
11. Cultivating a Reading Routine N2 Building Science Question Papers And Memo
 - Setting Reading Goals N2 Building Science Question Papers And Memo
 - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of N2 Building Science Question Papers And Memo
 - Fact-Checking eBook Content of N2 Building Science Question Papers 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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