

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 only

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 FAZK in the spaces provide.

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J Ma



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