

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

(10 MARKS)

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

- **Coagulation** – 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. ✓

Building Science N3 April 2012 Memorandum

Wenbin Ji



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