

QUESTION 2

(10 MARKS)

- 2.1 An object of mass 30 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

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

- 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)

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

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