Mechanics MCQ Unit 08: Statics and Torque

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Table of Contents

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4. Chapter: Unit 08: Statics and Torque

1. Unit 08: Statics and Torque Questions

4.1.1. If a meter stick is pivoted at the 50 cm mark and a mass of 50 gram...

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If a meter stick is pivoted at the 50 cm mark and a mass of 50 grams is hung at the 20 cm mark, then what mass must be hung from the 100 cm mark to balance the meter stick?

Please choose only one answer:

- 50 grams
- 40 grams
- 30 grams
- 20 grams

4.1.2. What is the definition of torque?

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What is the definition of torque?

Please choose only one answer:

- Torque is a scalar, in which magnitude is the product of the force applied and the distance between the point of application of the force and the axis of rotation.
- Torque is a vector, in which the magnitude is the product of the force applied and the distance from the point of application of the force and the axis of rotation.
- Torque is a scalar, in which the magnitude is the product of the force applied and the lever arm.
- Torque is the cross product of the force applied and the distance between the point of application of the force and the axis of rotation.

Check the answer of this question online at QuizOver.com:
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4.1.3. What must be true in order for a rigid body to be in equilibrium?

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What must be true in order for a rigid body to be in equilibrium?

Please choose only one answer:

- The body must be at rest.
- The net force on the body must be zero.
- Both the net force and the net torque on the body must be zero.
- Both A and C

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