Phy101 Quiz 1 By VU Stars (Waqas Ahmed)

PHY101:Online Quiz # 1 Physics (PHY101) Quiz Start Time: 08:29 AM, 28 May 2021

Question # 1 of 10 (Start time: 08:29:37 AM, 28 May 2021) Total Marks: 1

If a wheel turns with constant angular speed then:

Select the correct option

- (●) the wheel turns through equal angles in equal times
- ( ) each point on its rim moves with constant velocity
- ( ) each point on its rim moves with constant acceleration
- ( ) the angle through which the wheel turns in each second increases as time goes on

Click to Save Answer & Move to Next Question

PHY101:Online Quiz # 1 Physics (PHY101) Quiz Start Time: 08:29 AM, 28 May 2021

Question # 2 of 10 (Start time: 08:30:45 AM, 28 May 2021) Total Marks: 1

The angular momentum vector of Earth about its rotation axis, due to its daily rotation, is directed:

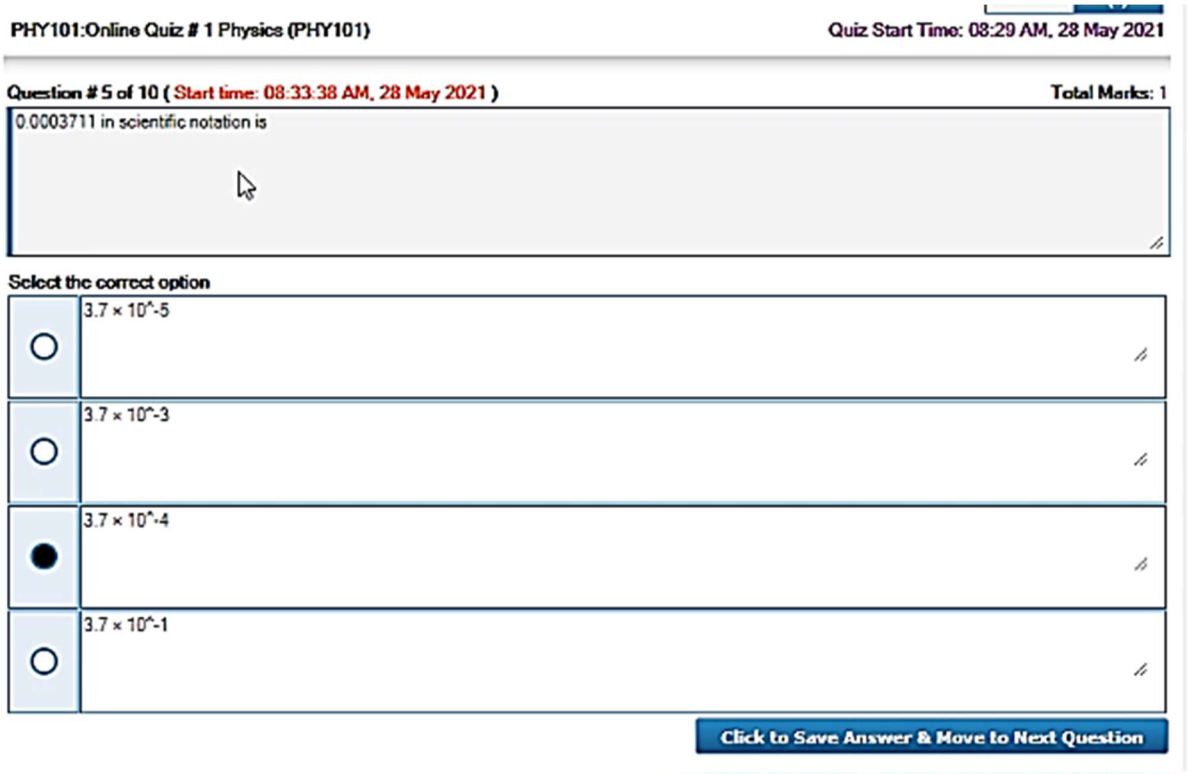
Select the correct option

- ( ) south
- ( ) tangent to the equator toward the west
- ( ) tangent to the equator toward the east
- (●) north

Click to Save Answer & Move to Next Question

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Phy101 Quiz 1 By VU Stars (Waqas Ahmed)


PHY101:Online Quiz # 1 Physics (PHY101)

Quiz Start Time: 08:29 AM, 28 May 2021

Question # 5 of 10 (Start time: 08:33:38 AM, 28 May 2021)

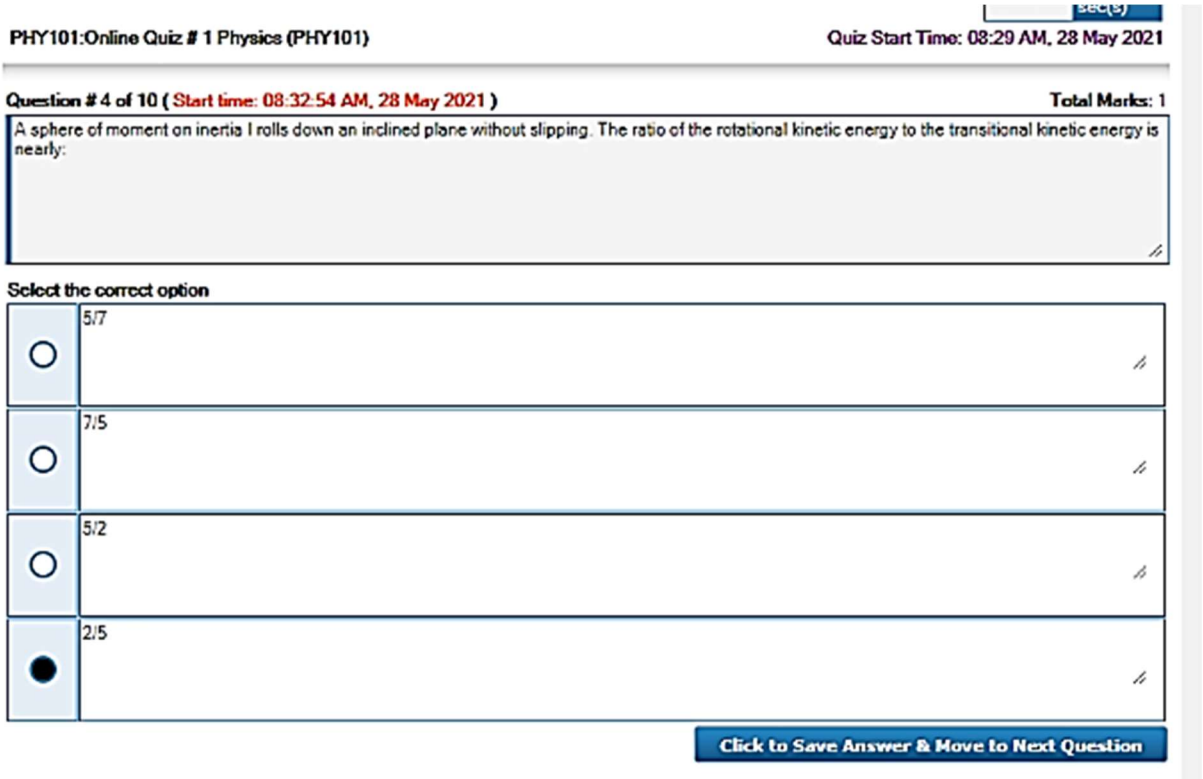
Total Marks: 1

0.0003711 in scientific notation is

Select the correct option

- 3.7 × 10^-5
- 3.7 × 10^-3
- 3.7 × 10^-4
- 3.7 × 10^-1

Click to Save Answer & Move to Next Question


PHY101:Online Quiz # 1 Physics (PHY101)

Quiz Start Time: 08:29 AM, 28 May 2021

Question # 4 of 10 (Start time: 08:32:54 AM, 28 May 2021)

Total Marks: 1

A sphere of moment on inertia I rolls down an inclined plane without slipping. The ratio of the rotational kinetic energy to the transitional kinetic energy is nearly:

Select the correct option

- 5/7
- 7/5
- 5/2
- 2/5

Click to Save Answer & Move to Next Question

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PHY101:Online Quiz # 1 Physics (PHY101) Quiz Start Time: 08:29 AM, 28 May 2021

Question # 6 of 10 (Start time: 08:34:29 AM, 28 May 2021) Total Marks: 1

The angle between rectangular components of a vector is:

Select the correct option

- (●) 90°
- ( ) 60°
- ( ) 0°
- ( ) 45°

Click to Save Answer & Move to Next Question

PHY101:Online Quiz # 1 Physics (PHY101) Quiz Start Time: 08:29 AM, 28 May 2021

Question # 7 of 10 (Start time: 08:35:11 AM, 28 May 2021) Total Marks: 1

A body of mass 2 kg moving with velocity 4 m/s has K.E equals to:

Select the correct option

- ( ) 2 J
- (●) 16 J
- ( ) 32 J
- ( ) 8 J

Click to Save Answer & Move to Next Question

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Phy101 Quiz 1 By VU Stars (Waqas Ahmed)

PHY101:Online Quiz # 1 Physics (PHY101) Quiz Start Time: 08:29 AM, 28 May 2021

Question # 8 of 10 (Start time: 08:35:58 AM, 28 May 2021) Total Marks: 1

An object moving in a circle at constant speed:

Select the correct option

- is not accelerating
- must have only one force acting on it
- has an acceleration of constant magnitude
- has no change in its direction

Click to Save Answer & Move to Next Question

PHY101:Online Quiz # 1 Physics (PHY101) Quiz Start Time: 08:29 AM, 28 May 2021

Question # 9 of 10 (Start time: 08:37:02 AM, 28 May 2021) Total Marks: 1

If the mass of moving objects is doubled then its K.E becomes:

Select the correct option

- 16 times
- 4 times
- 5 times
- 2 times

Click to Save Answer & Move to Next Question

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Phy101 Quiz 1 By VU Stars (Waqas Ahmed)

PHY101:Online Quiz # 1 Physics (PHY101) Quiz Start Time: 08:29 AM, 28 May 2021

Question # 10 of 10 (Start time: 08:37:32 AM, 28 May 2021) Total Marks: 1

A force of 120 N is exerted on a 40 kg container which sits on a floor. If the frictional force between floor and container is 80 N, what is the magnitude of the acceleration of the container?

Select the correct option

- 5 ms^-2
- 3 ms^-2
- 1 ms^-2
- 2 ms^-2

Click to Save Answer & Move to Next Question

PHY101:Online Quiz # 1 Physics (PHY101) Quiz Start Time: 09:56 PM, 27 May 2021

Question # 1 of 10 (Start time: 09:56:08 PM, 27 May 2021) Total Marks: 1

If the total momentum of a system is changing:

Select the correct option

- the center of mass must have constant velocity
- the system must be under the influence of gravity
- a net external force must be acting on the system
- particles of the system must be exerting forces on each other

Click to Save Answer & Move to Next Question

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Phy101 Quiz 1 By VU Stars (Waqas Ahmed)

PHY101:Online Quiz # 1 Physics (PHY101) Quiz Start Time: 09:56 PM, 27 May 2021

Question # 2 of 10 (Start time: 09:57:10 PM, 27 May 2021) Total Marks: 1

When body moves with constant acceleration the velocity time graph is:

Select the correct option

- Parabola
- Hyperbola
- Straight line
- Curve

Click to Save Answer & Move to Next Question

PHY101:Online Quiz # 1 Physics (PHY101) Quiz Start Time: 09:56 PM, 27 May 2021

Question # 3 of 10 (Start time: 09:58:44 PM, 27 May 2021) Total Marks: 1

The work done by gravity during the descent of a projectile:

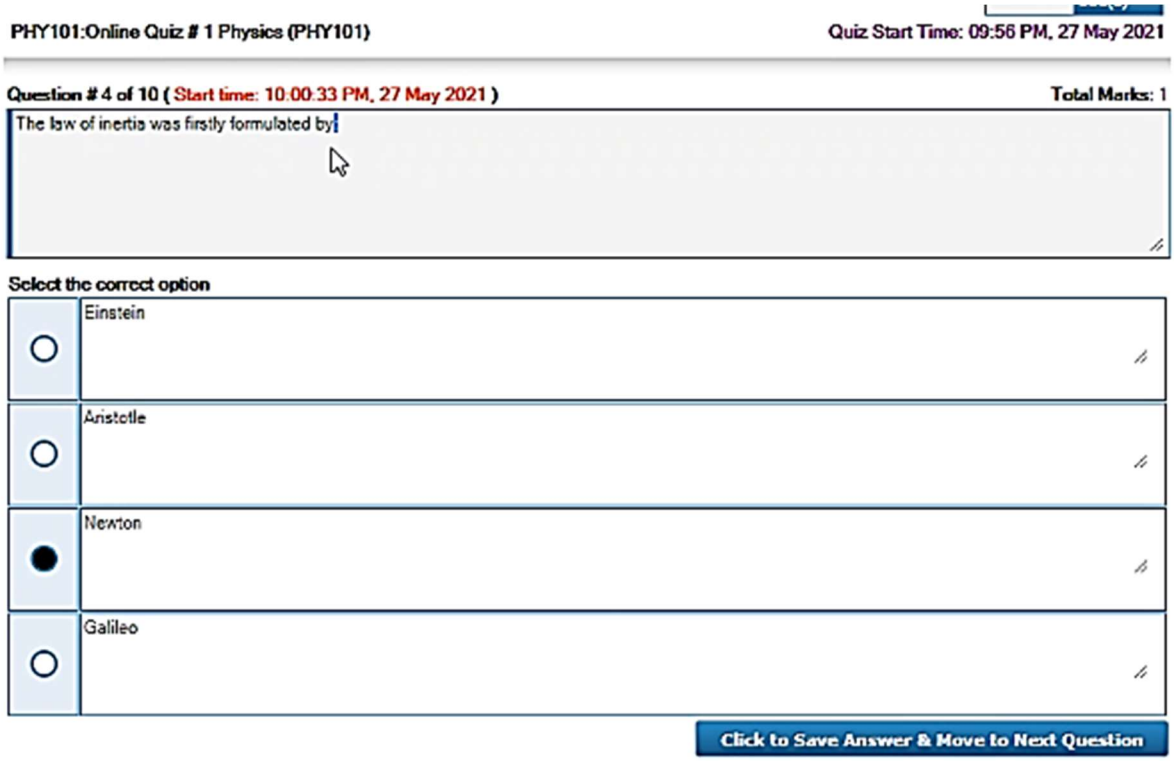
Select the correct option

- is zero
- is positive
- is negative
- depends for its sign on the direction of the y axis

Click to Save Answer & Move to Next Question

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Phy101 Quiz 1 By VU Stars (Waqas Ahmed)


PHY101:Online Quiz # 1 Physics (PHY101)

Quiz Start Time: 09:56 PM, 27 May 2021

Question # 4 of 10 (Start time: 10:00:33 PM, 27 May 2021)

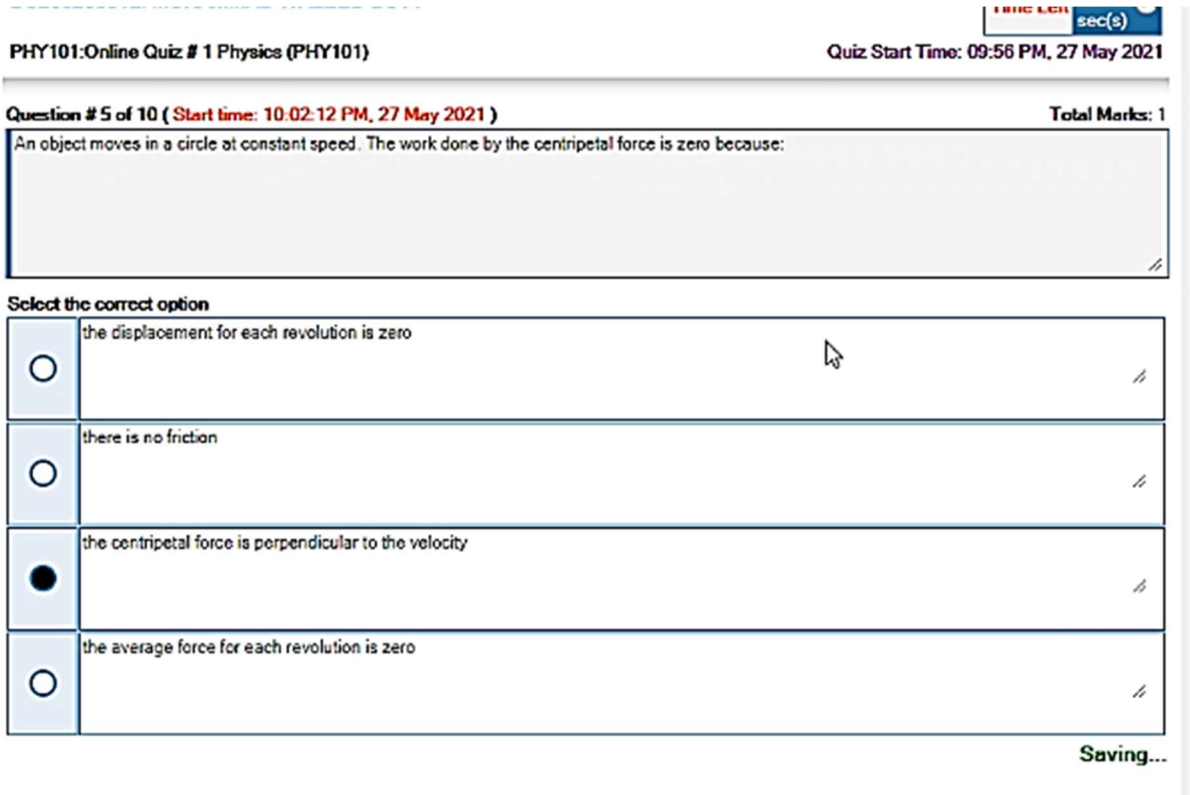
Total Marks: 1

The law of inertia was firstly formulated by

Select the correct option

- Einstein
- Aristotle
- Newton
- Galileo

Click to Save Answer & Move to Next Question


PHY101:Online Quiz # 1 Physics (PHY101)

Quiz Start Time: 09:56 PM, 27 May 2021

Question # 5 of 10 (Start time: 10:02:12 PM, 27 May 2021)

Total Marks: 1

An object moves in a circle at constant speed. The work done by the centripetal force is zero because:

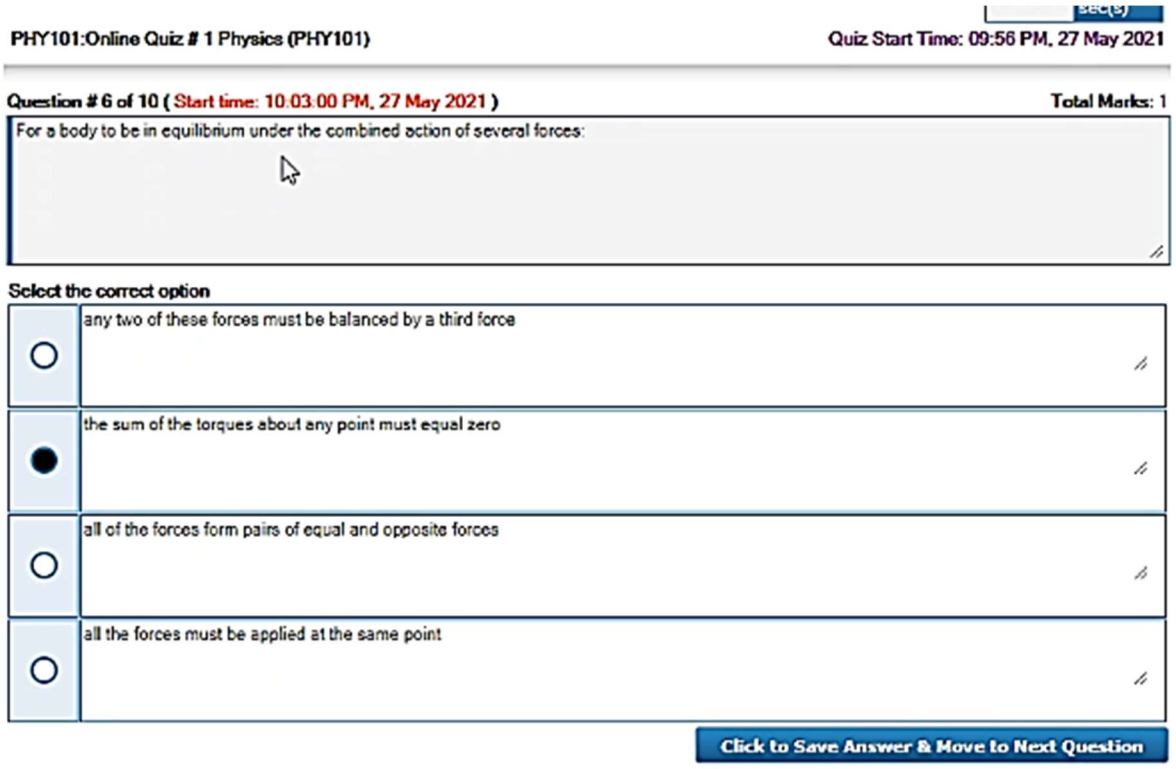
Select the correct option

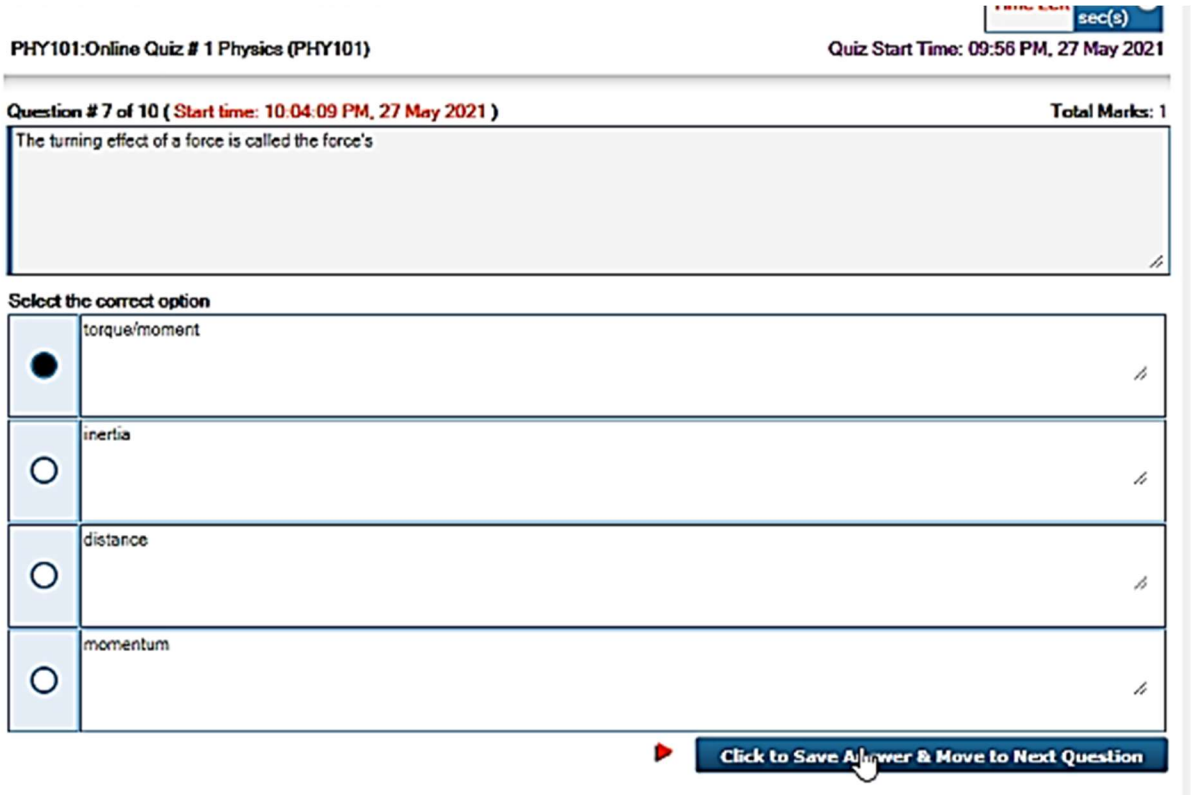
- the displacement for each revolution is zero
- there is no friction
- the centripetal force is perpendicular to the velocity
- the average force for each revolution is zero

Saving...

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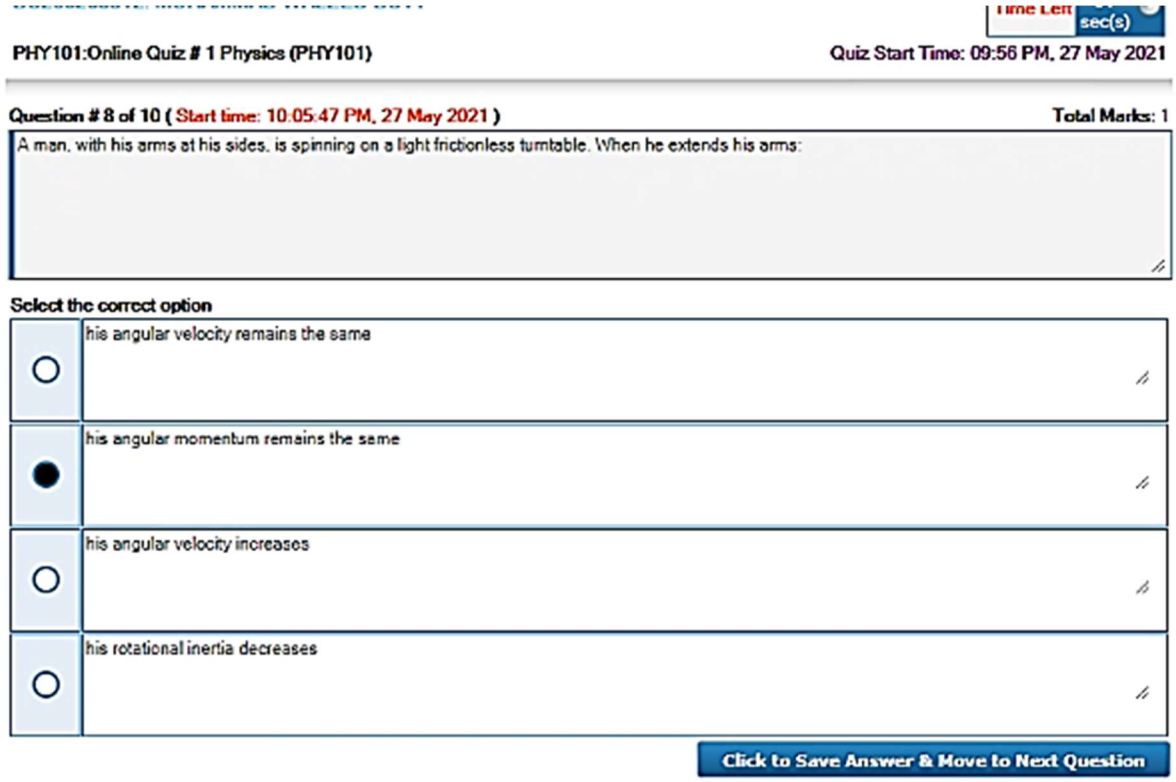
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PHY101:Online Quiz # 1 Physics (PHY101)

Quiz Start Time: 09:56 PM, 27 May 2021

Question # 8 of 10 (Start time: 10:05:47 PM, 27 May 2021)

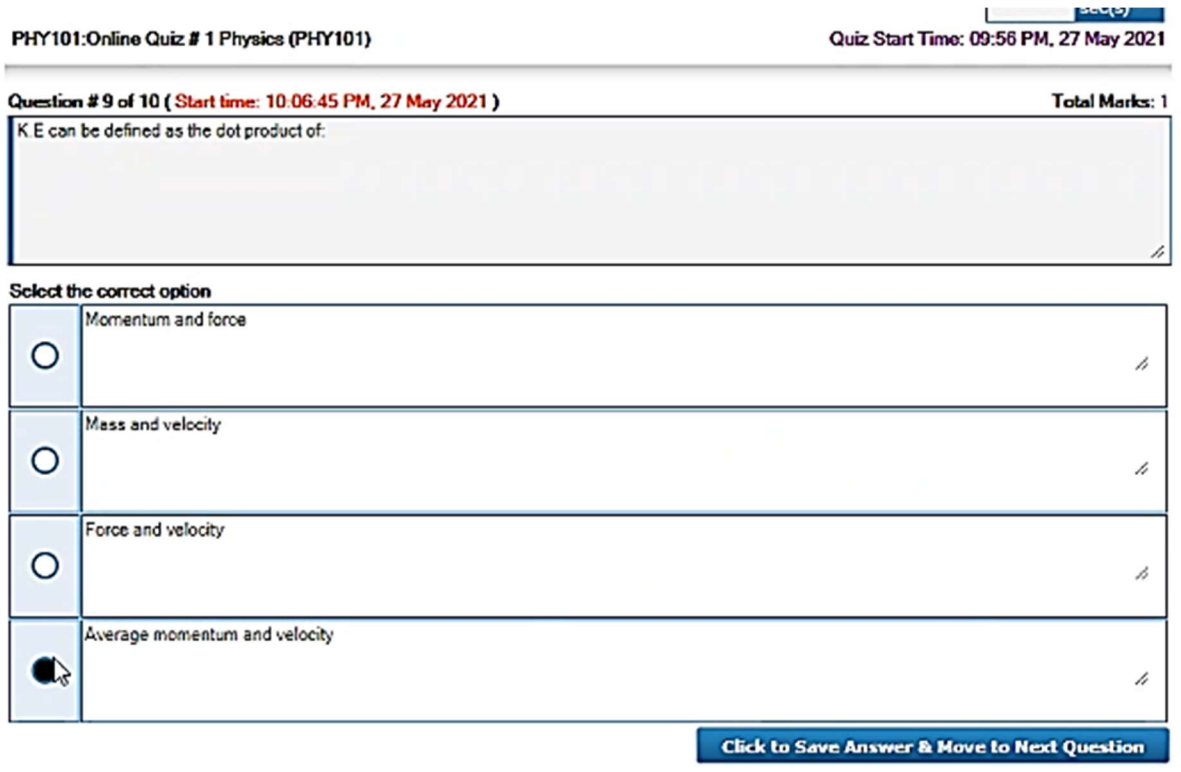
Total Marks: 1

A man, with his arms at his sides, is spinning on a light frictionless turntable. When he extends his arms:

Select the correct option

- his angular velocity remains the same
- his angular momentum remains the same
- his angular velocity increases
- his rotational inertia decreases

Click to Save Answer & Move to Next Question



PHY101:Online Quiz # 1 Physics (PHY101)

Quiz Start Time: 09:56 PM, 27 May 2021

Question # 9 of 10 (Start time: 10:06:45 PM, 27 May 2021)

Total Marks: 1

K.E can be defined as the dot product of:

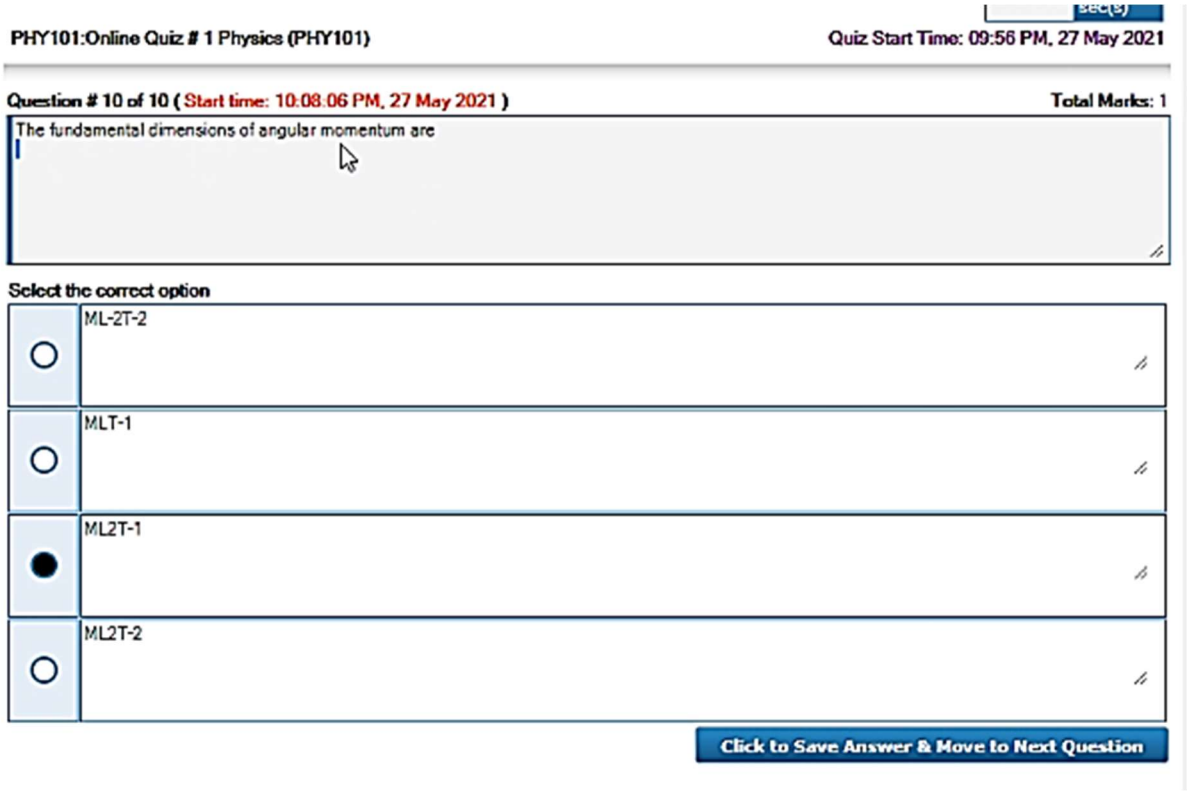
Select the correct option

- Momentum and force
- Mass and velocity
- Force and velocity
- Average momentum and velocity

Click to Save Answer & Move to Next Question

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Phy101 Quiz 1 By VU Stars (Waqas Ahmed)


PHY101:Online Quiz # 1 Physics (PHY101)

Quiz Start Time: 09:56 PM, 27 May 2021

Question # 10 of 10 (Start time: 10:08:06 PM, 27 May 2021)

Total Marks: 1

The fundamental dimensions of angular momentum are

Select the correct option

- ML-2T-2
- MLT-1
- ML2T-1
- ML2T-2

Click to Save Answer & Move to Next Question

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