

Quiz

سؤال

الوقت المتبقي 0:09:48

If a body is at rest, then it will be in

- a. ☐ Unstable equilibrium
- b. ☐ Dynamic equilibrium
- c. ☐ Translational equilibrium
- d. ☐ Static equilibrium

الصفحة التالية

سؤال 9

مرحبا بكم
الدرجة من 1.00
تم تقييم هذا السؤال

الرئيسية مقرراتي الدراسية

الوقت المتبقي 0:11:09

A 20.0-kg horizontal plank 4.00 m long rests on two supports, one at the left end and a second 1.00 m from the right end. What is the magnitude of the force exerted on the plank by the support near the right end?

- a. ☐ 112 N
- b. ☐ 131 N
- c. ☐ 32.0 N
- d. ☐ 98.2 N
- e. ☐ 45.2 N

الصفحة التالية

الانتقال إلى...

Chapter2-Lecture

Quiz / MDCN1213.2309.31.88

إختبار

Quiz

العودة

الوقت المتبقي

If the position $\vec{r}$ and force $\vec{F}$ are in same direction, then torque will be

- a. Negative ☐
- b. Minimum ☐
- c. Maximum ☐
- d. Same ☐

سؤال 6

غير معاد عليه

نقد

الدرجة هي 1.00

3.00 من هذا

السؤال

الصفحة

الوقت المتبقي 0:04:28

A rod 7.0 m long is pivoted at a point 2.0 m from the left end. A downward force of 50 N acts at the left end, and a downward force of 200 N acts at the right end. At what distance to the right of the pivot can a third force of 300 N acting upward be placed to produce rotational equilibrium? Note: Neglect the weight of the rod

- a ☐ 2.0 m
- b ☐ 4.0 m
- c ☐ 3.5 m
- d ☐ 1.0 m
- e ☐ 3.0 m

إنهاء المحاولة -

?Two forces are acting on an object. Which of the following statements is correct

- a ☐ The object is in equilibrium if the net torque on the object is zero.
- b ☐ The object cannot be in equilibrium because more than one force acts on it.
- c ☐ The object is in equilibrium if the forces act at the same point on the object.
- d ☐ The object is in equilibrium if the net force and the net torque on the object are both zero.
- e ☐ The object is in equilibrium if the forces are equal in magnitude and opposite in direction.

الصفحة التالية



If 2nd condition of equilibrium is satisfied, body will be in

- a. ☐ rotational equilibrium
- b. ☐ dynamic equilibrium
- c. ☐ translational equilibrium
- d. ☐ static equilibrium

سؤال 18

غير محاب عليه
بعد

الدرجة من 1.00

٣ عليم هذا
السؤال

الوقت المتبقي 0:07:28

In analyzing the equilibrium of a flat, rigid object, you are about to choose an axis about which you will calculate torques. Which of the following describes the choice you should make?

a ☐ The axis should pass through any point within the object

b ☐ The axis should pass through the object's center of mass

c ☐ The axis should be either the x axis or the y axis

d ☐ The axis should pass through any point within the object

e ☐ The axis should pass through one end of the object

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محتاج عليه

درجة من 1.00

أعلم هذا

السؤال



الوقت المتبقي 0:08:14

Clockwise rotation is taken as?

Negative .a ☐

Neutral .b ☐

Positive .c ☐

Infinity .d ☐

الصفحة التالية

الوقت المتبقي 0:08:47

The point of intersection of the lines of action of the weight of all the points of body is called?

- a. ☐ Centre of mass of the body
- b. ☐ Centre of the body
- c. ☐ Centre of gravity of the body
- d. ☐ None of these

الصفحة التالية

For a body to be in complete equilibrium.

$$\Sigma F = 0$$

a. ☐

$$\Sigma \tau = 0$$

b. ☐

$$\Sigma F = 0 \text{ and } \Sigma \tau = 0$$

c. ☒

d. ☐ None

أدخل اختياري

If the line of action of force passes through axis of rotation or the origin, then its torque is:

Maximum .a ☐

Zero .b ☐

Unity .c ☐

None of these .d ☐

الوقت المتبقي 0:15:57

The greater the force, the larger will be the

- a. ☐ Mass
- b. ☐ Torque
- c. ☐ Axis of rotation.
- d. ☐ Centre of mass.

الصفحة التالية

الانتقال إلى...

Chapter2-Lecture2

سؤال 18

نمر محاسب عليه
تعد

لدرجة من 1.00

؟ علم هذا
للسؤال

To obtain the maximum torque for a given force when using a wrench, the force should be applied at a ____ degree angle to the handle of the wrench.

60 .a ☐

30 .b ☐

45 .c ☐

90 .d ☐

180 .e ☐

A body is said to be in static equilibrium?

When it is moving around a circular path. ☐ a

When it is a. rest. ☒ b

.When it is accelerated by the external force ☐ c

.When it is moving with uniform velocity ☐ d

اخذل. اختياري

إختبار
Quiz

العودة

الوقت المتبقى 0:21:50

Two forces which are equal in magnitude but opposite in direction and
?not acting along the same line is a

- Torque .a ☐
- Rotation .b ☐
- Couple .c ☐
- Motion .d ☐

الصفحة التالية

سؤال 11
غير محاب عليه
بعد
الدرجة من 1.00
؟ عيّم هذا
السؤال

Q

تنقل

1

7

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إنهاء الد

الوقت المتبقي 0:29:45

If value of moment arm is zero, then torque produced will be

0 .a ☐decreased .b ☐1 .c ☐doubled .d ☐

الصفحة التالية

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الانتقال إلى

Chapter2-Lectu

سؤال 3

غير مصنف عليه

نقطة

المرحلة من 1.00

3 علم هذا

السؤال

To form a couple, force should be

equal in magnitude .a ☐

separated by distance .b ☐

all of above .c ☐

parallel and opposite .d ☐

الصفحة التالية

A doorknob is normally placed near the edge of the door, opposite the hinges. This is

because

.a ☐ a force at this position will produce a maximum torque

.b ☐ that is where the door's rotational inertia will be lowest

.c ☐ the door would look funny with the knob in any other position.

.d ☐ a force at this position will produce a minimum torque.

تنقل الاخر

الوقت المتبقي 0:29:35

Counter..clockwise rotation is taken as?

Positive .a ☒Negative .b ☐Neutral .c ☐Zero .d ☐

أخل اختياري

سؤال 1

غير محاب عليه
بعد

الدرجة من 1.00

٣ علم هذا
السؤال

الصفحة التالية

الانتقال إلى...

Chapter2-Lecture2 ▶