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**QUESTION 1**

A lead sphere 10 centimeters in diameter is attached to a 10-meter wire and suspended from a beam in a large warehouse. A lead sphere 1 meter in diameter is hung next to the smaller sphere, almost touching. Ignoring friction, which statement is true?

- A. The small sphere will move slightly towards the big sphere, but the big sphere will not move.
- B. The big sphere will move slightly toward the small sphere, but the small sphere will not move.
- C. Neither sphere will move.
- D. Both spheres will move slightly towards each other.

Correct Answer: D

There will be a gravitational force of attraction between the two spheres determined by the universal constant of gravity, the distance between the spheres, and the mass of the spheres. Since both objects are affected by this force (remember, Newton's 3rd law says the force needs to be equal and opposite), both objects will experience a slight acceleration and start moving towards each other a tiny amount (when we ignore friction). Using $F = ma$, you know that the less massive sphere will experience a larger acceleration than the more massive one.

QUESTION 2

Which of the following is NOT an example that leads to an increase in entropy?

- A. Smashing a diamond into a thousand pieces
- B. Burning wood to create a fire
- C. Adding NaCl to water
- D. Melting ice
- E. All of the following are examples of increase in entropy

Correct Answer: E

One needs a conceptual background on entropy and what increases it (and decreases it). Anything that goes from a more ordered state to a disordered state (solid diamond piece into a thousand pieces, solid ice cube into a fluid water etc.) is an increase in entropy.

QUESTION 3

Ma'Tia drove 400 miles in 6 hours. She has an additional 180 miles to drive. If she drives at the same rate of speed, how long will it take her rounded to the nearest hour?

- A. 3 hours
- B. 2 hours



C. 4 hours

D. 1 hour

Correct Answer: A

$$400/6 = 180/x, 400x = 1080, x = 2.7.$$

Rounded to the nearest hour, it will take her approximately 3 hours.

QUESTION 4

Which of the following series of elements lists an alkaline earth metal, transition metal, nonmetal and noble gas in that respective order?

A. Mg, Cu, Zn, I

B. Mg, Ne, Fe, H

C. He, F, Fe, Mg

D. Ca, Fe, N, Ne

E. Br, H, Ca, Mg

Correct Answer: D

QUESTION 5

On a bad day, have you ever been irritable? Have you ever used a harsh tone or even been verbally disrespectful to your parents or teachers? Everyone has a short temper from time to time, but current statistics indicate that between 16% and 20% of a school population suffer from a psychological condition known as Oppositional Defiance Disorder, or ODD.

ODD symptoms include difficulty complying with adult requests, excessive arguments with adults, temper tantrums, difficulty accepting responsibility for actions, low frustration tolerance, and behaviors intended to annoy or upset adults. Parents of children with ODD can often feel as though their whole relationship is based on conflict after conflict.

Unfortunately, ODD can be caused by a number of factors. Some students affected by ODD suffer abuse, neglect, and severe or unpredictable discipline at home. Others have parents with mood disorders or have experienced family violence. Various types of therapy are helpful in treating ODD, and some drugs can treat particular symptoms. However, no single cure exists.

The best advice from professionals is directed toward parents. Therapists encourage parents to avoid situations that usually end in power struggles, to try not to feed into oppositional behavior by reacting emotionally, to praise positive behaviors, and to discourage negative behaviors with timeouts instead of harsh discipline.

Which of the following can be inferred from paragraph one?

A. Between 16% and 20% of the school population has been abused.

B. Most children who speak harshly to their parents have ODD.



C. Most people exhibit symptoms of ODD occasionally.

D. A short temper is a symptom of obsessive-compulsive disorder.

Correct Answer: C

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