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QUESTION 1

Which of the following is false in regards to arthropods?

- A. They are a class of invertebrates.
- B. They possess a chitinous exoskeleton.
- C. All arthropods are aerobic organisms.
- D. It possess a tracheal system for respiration.
- E. None of the above.

Correct Answer: E

All characteristics in the answer choices are true of arthropods (insects).

QUESTION 2

A cannon is fired at an angle of 30° above the ground, with an initial velocity of 100 m/s. How long will it take for the cannon ball to hit the ground assuming there is no air resistance?

- A. 10 seconds
- B. 20 seconds
- C. 50 seconds
- D. 100 seconds
- E. Cannot be calculated with this information.

Correct Answer: A

Visualize the problem as a vector, and find the y component of it: $100 \text{ m/s} \times \sin 30 = 50 \text{ m/s}$.

This means the cannon traveled 50 meters up, and 50 meters down in the y direction. Gravity is 10 m/s^2 , thus it took 5 seconds to go up, and another 5 seconds to go down, totaling an air time of 10 seconds.

QUESTION 3

Which of the following holds the greatest bond energy?

- A. HCl
- B. O₂
- C. Br₂

D. CN

E. OH

Correct Answer: D

In general, triple bonds > double bonds > single bonds in bond energies. CN is linked via a triple bond: C N

QUESTION 4

What is the hydrostatic pressure in a pond at a depth of 100 m? (Density of water = 1000 kg/m³)

A. 1.0×10^6 Pa

B. 1.0×10^6 atm

C. 1.0×10^5 Pa

D. 1.0×10^5 atm

E. 300 Pa

Correct Answer: A

Hydrostatic Pressure = ρD where:

ρ = Density of fluid (1000 kg/m³ here, as given) g = Gravity (unless stated otherwise, this is 10 m/s²) D = Depth (100 m, as given)

Simply plug and chug. Remember the SI unit of pressure is Pascal (Pa). Since all given units are in their respective SI formats, no conversion is needed.

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 statements can be inferred from paragraph 4?

- A. Parents of children with ODD are bad parents.
- B. ODD is not a real psychological disorder.
- C. Medication can worsen ODD.
- D. Reacting emotionally to defiant behavior might worsen the behavior.

Correct Answer: D

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