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QUESTION 1

Organisms that utilize solar energy to exist are called:

- A. Apotrophic
- B. Autotrophic
- C. Heterotrophic
- D. Chemotrophic
- E. Mixotrophic

Correct Answer: B

Autotrophic organisms use sunlight as a source of energy (ex. plants). It is recommended one knows the basic definition of autotrophic, heterotrophic, chemotrophic etc. and examples of each.

QUESTION 2

The molar solubility of an hypothetical salt, AB, is 3.0×10^{-3} . Find the K_{sp}

- A. 27×10^{-9}
- B. 9×10^{-6}
- C. 6×10^{-3}
- D. 1.5×10^{-3}
- E. 3.0×10^{-3}

Correct Answer: B

QUESTION 3

Which of the following statements is FALSE regarding C3 and C4 photosynthesis?

- A. The CO_2 is incorporated into a 3-carbon compound in C3.
- B. In C3, the CO_2 is directly fed into the Calvin Cycle.
- C. In C3, RUBISCO is used to fix CO_2 .
- D. The C3 and C4 reactions are temporally separated.
- E. All of the above are true statements.



Correct Answer: E

All of the above are accurate statements.

QUESTION 4

If 8 people can eat 6 bags of chips, how many people will it take to eat 15 bags of chips?

- A. 22
- B. 18
- C. 16
- D. 20

Correct Answer: D

Use a proportion to solve the problem. $\frac{8}{6} = \frac{x}{15}$, $60 = 3x$, $x = 20$.

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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