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QUESTION 1

What is the pH of 0.001M NaOH solution?

- A. 11
- B. 3
- C. 13
- D. 8
- E. 5

Correct Answer: A

Because this is a strong base, we automatically assume concentration of $[\text{OH}^-] = 0.001 = 1.0 \times 10^{-3}$.

$$\text{pOH} = -\log[\text{OH}^-] = -\log[1.0 \times 10^{-3}] = -(-3) = 3 \quad \text{pH} = 14 - \text{pOH} \quad \text{pH} = 14 - 3 = 11$$

Be sure to be familiar and able to calculate logs. You will be expected to without a calculator. The above problem was an easy conversion (likely to be seen), but you may be provided with more harder ones (ex. $[\text{OH}^-] = 3.4 \times 10^{-3}$)

QUESTION 2

A liquid is held at its freezing point and slowly allowed to solidify. Which of the following statements about this event are true?

- A. During freezing, the temperature of the material decreases.
- B. While freezing, heat is given off by the material.
- C. During freezing, heat is absorbed by the material.
- D. During freezing, the temperature of the material increases.

Correct Answer: B

Freezing is an exothermic event; therefore, heat must be given off. The temperature of the material remains unchanged at the freezing point during the process.

QUESTION 3

What is the molecular geometry of BF_3 ?

- A. Linear
- B. Tetrahedral
- C. Trigonal Planar



D. T-shaped

E. Square planar

Correct Answer: C

QUESTION 4

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

QUESTION 5

Which of the following is incorrect in regards to mitosis and meiosis?

- A. Both mitosis and meiosis have 1 round of replication.
- B. Meiosis has 2 rounds of division.
- C. Mitosis has 1 round of division.
- D. There is no crossing over in mitosis.
- E. None of the above.

Correct Answer: E



All of the answer choices are indeed correct.

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