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QUESTION 1

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.

The author's purpose in writing this passage is to:

- A. Prove that parents are the cause of ODD.
- B. Express frustration about ODD.
- C. Inform the reader about this complex condition.
- D. Persuade the reader to keep students with ODD out of public school.

Correct Answer: C

QUESTION 2

Which statement correctly describes the elastic limit of a metal rod?

- A. The elastic limit occurs when a deformed object will no longer return to its original shape.
- B. The elastic limit occurs when the rod breaks.
- C. The elastic limit occurs when the stress stops producing a strain.
- D. The elastic limit assumes that the forces between molecules in a metal act like springs.

Correct Answer: A

When an external force deforms a solid material, it will return to its initial position when the force is removed. This is called elasticity and is exhibited by springs. If too much force is applied and the elastic limit is exceeded, the rod won't return to its original shape any longer. As with springs, the deformation is directly proportional to the stress. The elastic limit occurs in rods subjected to a tensile force when the strain stops being directly proportional to the stress. The typical pattern when the force increases is that the strain increases linearly, then it doesn't increase as much, and then it breaks.

QUESTION 3

Which of the following functions in regulating and allowing chyme to pass from the stomach to the duodenum of the small intestine?

- A. Cardiac sphincter
- B. Pyloric sphincter
- C. Ileocecal sphincter
- D. Esophageal sphincter
- E. Sphincter of Oddi

Correct Answer: B

Pyloric sphincter is indeed the function that the question describes. Sphincter of Oddi functions in allowing digestive juices (bile) through the hepatopancreatic duct. Cardiac sphincter functions between the esophagus and the stomach, preventing stomach juice (acid) from coming up the esophagus. The ileocecal sphincter borders the small and large intestine, preventing contents from the colon spilling back into the ileum (small intestine). The esophageal sphincter functions in opening to allow food from the mouth to enter the esophagus. It is very important to know and understand the functions of these main sphincters in the body.

QUESTION 4

Identify the incorrect pairing of hormone to site of secretion:

- A. Glucagon – alpha cells
- B. Angiotensinogen – liver
- C. GnRH – anterior pituitary
- D. TRH – hypothalamus
- E. Oxytocin – posterior pituitary

Correct Answer: C

GnRH is released from the hypothalamus, not the anterior pituitary.

QUESTION 5

Leaves have parallel veins:

- A. Monocots
- B. Nonvascular plants
- C. Gymnosperms

D. Dicots

E. Angiosperms

Correct Answer: A

Monocots differ from dicots in that they have one cotyledon, or embryonic leaf in their embryos. They also have parallel veination, fibrous roots, petals in multiples of three, and a random arrangement of vascular bundles in their stems.

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