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QUESTION 1

A solenoid is made of loops of wire, through which a current is run. What is the purpose of putting a lot if loops into a solenoid?

A. To increase the magnetic field inside the solenoid.

B. To increase the magnetic field outside the solenoid.

C. To decrease the magnetic field inside the solenoid.

D. To decrease the magnetic field inside the solenoid.

Correct Answer: A

Solenoids create a magnetic field inside the coils. Outside the solenoid, the magnetic field is practically zero, so increasing the number of coils won\\'t have much effect on the exterior field strength. Inside the coils, increasing the number and density of coils increases the field strength.

QUESTION 2

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. 8/6 = x/15, 60 = 3x, x = 20.

QUESTION 3

Hormones composed of steroids are synthesized in which of the following organelles in the cell?

A. Smooth ER

B. Rough ER

C. Golgi apparatus

D. Ribosomes

E. Peroxisomes

Correct Answer: A

The smooth ER is responsible for synthesizing components of the plasma membrane along with lipids (steroids) such as testosterone that act as hormones in the body. It is critical to be familiar with the cell organelles and their function as it is expected to be a question in the biology section.

QUESTION 4

A red flower is crossed with a white flower and produces a progeny consisting of 100% pink flowers. This is an example of?

A. Incomplete dominance

B. Co-dominance

C. Epistasis

D. Pleitropy

E. Complementation

Correct Answer: A

When the progeny is a hybrid characteristic of the parentals, this is indeed incomplete dominance. Co-dominance can refer to blood types (A and B) whereas epistasis is one gene making the phenotypic expression of a second gene.

QUESTION 5

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.