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QUESTION 1

Where is fat stored within the skeletal system?

- A. red bone marrow
- B. yellow bone marrow
- C. compact bone
- D. spongy marrow

Correct Answer: B

QUESTION 2

Cells with a high rate of protein synthesis generally have a large number of which of the following cellular structures?

- A. Mitochondria.
- B. Ribosomes.
- C. Lysosomes.
- D. Golgi apparatus

Correct Answer: B

QUESTION 3

Which of the following is equivalent to 0.0009?

- A. 0.0009%
- B. 0.009%
- C. 0.09%
- D. 0.9%

Correct Answer: C

QUESTION 4

Which word or phrase in the following sentence is the simple predicate?

Due to her stingy nature, the famous actress was not generous with her friends and family.

- A. Due to her stingy nature

B. the famous actress

C. was generous

D. generous

Correct Answer: C

QUESTION 5

Subtract: $8,674.5 - 998.9 =$

A. 4,445.67

B. 7,675.6

C. 8,294.6

D. 3,349.5

Correct Answer: B

QUESTION 6

Vitamin K is created in the:

A. Liver.

B. Lungs.

C. Intestinal tract.

D. Pancreas.

Correct Answer: C

QUESTION 7

Select the meaning of the underlined word in the sentence.

The manifestation of a rash on the patient's skin indicated that he was allergic.

A. shirking

B. appearance

C. donning

D. acquiescence

Correct Answer: B

QUESTION 8

On an annual basis, a hospital deliver 1,820 babies. If 55% of the babies born are boys, how many girls were born in a year?

A. 1001

B. 819

C. 637

D. 1183

Correct Answer: B

QUESTION 9

Ligaments connect ____.

A. tendon to bone

B. muscle to muscle

C. bone to bone

D. muscle to bone

Correct Answer: C

QUESTION 10

Researchers have developed a recording device that essentially melts into place, snugly fitting to the brain's surface. This new technology allows for closer interaction between machines and living tissue, paving the way for more advanced implantable devices. Currently, the simplest devices for recording from the brain are needle-like electrodes that can penetrate into brain tissue. More state-of-the-art devices, called micro-electrode arrays, consist of dozens of semi-flexible wire electrodes. These are usually fixed to rigid silicon grids that don't conform to the brain's shape. An ideal recording device would conform to complex curved surfaces while placing minimal stress on the tissue. The scientists chose silk as their base material because it is flexible and durable enough to withstand manipulation. The team reported that they were able to create ultrathin flexible implants that hug the brain like shrink wrap, collapsing into its grooves and stretching over its rounded surfaces. The silk base dissolves once it makes contact with the brain, allowing the array to end up tightly hugging the brain. They found that the ultrathin arrays they created can record brain activity more faithfully than thicker implants embedded with similar electronics.

Which of the following is NOT a characteristic of the silk brain recording device?

- A. Durability
- B. Flexibility
- C. Different rates of dissolution
- D. Needle-like electrodes

Correct Answer: D

QUESTION 11

Select the correct word(s) for the blank in the following sentence. I want _____ to win the trophy.

- A. she
- B. her

C. hers

D. herself

Correct Answer: B

QUESTION 12

A medical scientist wants to study the parenchyma of the kidney. This scientist would correctly be known, most specifically, as a:

A. biologist.

B. doctor.

C. anatomist.

D. histologist.

Correct Answer: D

QUESTION 13

Reading Material

Smallpox is one of the deadliest and dangerous diseases affecting the human population across the world. The first recorded epidemic was in 1350 BC during the Egyptian-Hittite war, and it was quite prevalent in the late 1800\\'s through a large part of the 1900\\'s. Approximately five hundred million people were infected with the disease prior to its eradication in the 1970\\'s, with the last case being in Somalia in 1977. Symptoms of infection included excessive bleeding, high fever, delirium, vomiting, and a raised pink rash. Most cases of smallpox ended in death and survivors were often seriously maimed by pock marks, blindness, or infertility. The pain and suffering remained for a lifetime after the disease was gone.

There is no known cure for smallpox, only preventative vaccinations. Because smallpox was wiped out in 1970s, the World Health Organization (W.H.O.) recommended that all countries stop vaccinating for the disease in 1980. This means that today, most young people are not vaccinated against the disease. Because the disease is considered eradicated, the issue of what to do with the remaining government-held vaccines has been an issue of debate. Should the stored vaccines be destroyed since the disease is no longer a concern, or do we keep them in storage for research or in case of an unexpected outbreak? Experts at the Center for Disease Control (C.D.C.) and the World Health Organization have spent an enormous amount of time researching this issue and have given much educated thought to the matter. Reportedly the W.H.O. wants to destroy all vaccines, however some scientists feel the destruction could do more harm than good.

The issue of bioterrorism adds another layer of complexity to the issue. In the case of smallpox, just a small amount of the virus released in the air could infect thousands of people in 6-24 hours. If such a disease were used as a weapon, we would obviously want the vaccine available for use. However, the fact that the vaccine still exists allows the use of smallpox for bioterrorism in the first place. If we could be sure all of the vaccine was destroyed, the decision may be a bit easier, but what if it the vaccine were only partially destroyed, and the remainder was used by an unfriendly nation?

In this world of global unrest and increasing technology, bioterrorism will come an increasing concern. The smallpox virus could be a serious threat to world health should any nation engage in the act of bioterrorism against an enemy. The question remains: do we run the risk of bioterrorism by continuing to store the medicine for several hundred smallpox vaccinations or do we destroy the vaccine and pray that there is no outbreak of the deadly virus? Because it is unknown

at this time if researchers are able to re-create the vaccine, either solution may have permanent consequences.

Which of these claims is not in the accompanying article about smallpox?

- A. In the past many people died from smallpox.
- B. Terrorists have gotten ahold of the smallpox vaccine.
- C. Most cases of smallpox end in death.
- D. It is unknown whether the smallpox vaccine could be re-created.

Correct Answer: B

QUESTION 14

The orthopedic surgeon informs you that you have broken the end of your femur. What area is she describing?

- A. Epiphysis.
- B. Diaphysis.
- C. Shaft.
- D. Bone matrix

Correct Answer: A

QUESTION 15

Which of the following is NOT a role of cortisol?

- A. Reducing inflammation.
- B. Raising the blood sugar level.
- C. Inhibiting the release of histamine.
- D. Controlling motor impulses.

Correct Answer: D

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