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QUESTION 1

Which one is the correct verb form to use in this sentence? My shower ____ a leak Friday night.

- A. spring
- B. sprung
- C. spranged
- D. sprang

Correct Answer: D

QUESTION 2

Reading Material

A complete blood count (CBC) is one of the most useful and requested types of analysis in medical practice. A CBC searches for all the cells that exist in the blood, which are divided into three basic types: white blood cells (leukocytes), platelets, and red blood cells (erythrocytes). All of these blood cells are produced in the bone marrow and correspond to a specific exam, integrated in the CBC: erythrogram, leukogram, and thrombogram.

The erythrogram studies red blood cells. Among other tests, it includes a red blood cell count, a hematocrit, and hemoglobin. When these levels are low, the patient may be suffering from anemia, which can be caused by anything from heavy menstrual bleeding to Addison's disease. A diagnosis of polycythemia may be made if the number of red blood cells is increased.

The leukogram is the test that evaluates the number of white cells present in the blood, which should vary between 4,000 and 10,000 cells per cubic millimeter in most adults. High values of white blood cells are seen with infection or severe emotional/physical stress, while AIDS and chemotherapy are two causes for low values.

The thrombogram is the analysis of platelets, the cells responsible for coagulation. The main function of platelets is to help stop bleeding by helping form a clot. They do this by secreting proteins from their surface that allow them to stick to vessels and each other. Low values of platelets are seen with pregnancy or an enlarged spleen, whereas high values are seen with cancers or iron deficiency.

What is the name of the disease characterized by a high number of red blood cells?

- A. This condition was not mentioned in this passage.
- B. thrombocytopenia
- C. polycythemia
- D. anemia

Correct Answer: C

QUESTION 3

Respiration rates are regulated by which of the following?

- A. Increasing levels of oxygen
- B. Increasing levels of nitrogen
- C. Increasing levels of carbon dioxide
- D. Decreasing levels of oxygen
- E. Decreasing level of carbon dioxide

Correct Answer: C

QUESTION 4

What is the best description for the word therapeutic?

- A. understanding
- B. remedial
- C. palliative
- D. concurrent

Correct Answer: B

QUESTION 5

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 sentence best summarizes the benefits of the new silk technology?

- A. The new technology allows for closer interaction between machines and living tissue, paving the way for more advanced implantable devices.
- B. These implants have the potential to maximize the contact between electrodes and brain tissue, while minimizing damage to the brain.
- C. They could provide a platform for a range of devices with applications in epilepsy, spinal cord injuries, and other neurological disorders.
- D. The arrays could potentially read the complex signals in the brain that direct movement, and then route those signals to healthy muscles or prosthetic devices.

Correct Answer: A

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