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QUESTION 1

DNA is made up of which of the following nucleotides?

- A. Adenine, Guanine, Cytosine, and Thymine
- B. Uracil, Adenine, Guanine, and Thymine
- C. Adenine, Cytosine, Guanine, and Thymine
- D. Ribose, Phosphate, Pentose, and Amine

Correct Answer: A

QUESTION 2

Which of the following is responsible for differentiation, or specialization, of cells?

- A. Platelets.
- B. Hormones.
- C. Neurons.
- D. Brain cells.

Correct Answer: B

QUESTION 3

Alfalfa thrives on land which contains lime, and gives poor results when this ingredient is deficient. The explanation is simple: there is a community of interest between the very low microscopic animal life, known as bacteria, and plant life, generally. In every ounce of soil there are millions of these living germs which have their allotted work to do, and they thrive best in soils containing lime. If one digs up a root of alfalfa (it need not be an old plant, the youngest plant will show the same peculiarity), and care is taken in exposing the root (perhaps the best method is the washing away of the surrounding earth by water), some small nodules attached to the fine, hair-like roots are easily distinguished with the naked eye. These nodules are the home of a teeming, microscopic, industrious population, who perform their allotted work with the silent, persistent energy so often displayed in nature.

Which of the following is an accurate paraphrasing of the underlined phrase?

- A. Many people are intrigued by the relationship between bacteria and plant life.
- B. Bacteria and alfalfa plants have a symbiotic relationship.
- C. Bacteria in alfalfa is worth studying.
- D. The gardening community is very invested in the bacteria found in alfalfa.

Correct Answer: B

QUESTION 4

A salesman spent \$34 at the store in the first week of December. He spent \$73 during each of weeks two and three. The last week, he spent another \$123. What was his average weekly expense during the month of December?

- A. \$57.50
- B. \$75.75
- C. \$73.00
- D. \$101.00

Correct Answer: B

QUESTION 5

What is the best description for the term contraindication?

- A. An indication of a problem
- B. Already present
- C. To begin or put into practice
- D. A reason why something should not be done

Correct Answer: D

QUESTION 6

Which of the following sentences is grammatically correct?

- A. The professor sought advise from a colleague.
- B. To advice the President, the Joint Chiefs of Staff must be well-informed.
- C. A good advicer is essential in order to have a successful academic career.
- D. My parents give me excellent advice when I am making a difficult decision.

Correct Answer: D

QUESTION 7

A survey company must contact 136 people via phone calls. How many buttons must be pushed to make the 136 long distance calls?

- A. 816
- B. 1224
- C. 1360
- D. 1632

Correct Answer: C

QUESTION 8

Joe makes \$20 an hour and Tim makes \$30 an hour. How many hours more than Tim must Joe work to earn the same amount Tim makes in 4 hours?

- A. 1

B. 2

C. 3

D. 4

Correct Answer: B

QUESTION 9

What is the best definition of the word proximal?

A. far

B. up

C. away

D. central

Correct Answer: D

QUESTION 10

How many meters in a kilometer?

A. 10

B. 100

C. 1000

D. 2.2

Correct Answer: C

QUESTION 11

In order for the actin filaments to bind to the myosin head, what must occur first?

A. The sarcomere has to shorten.

B. Calcium ions must bind to troponin molecules.

C. Tropomyosin has to attach to the actin binding sites.

D. Magnesium ions must be released by the sarcoplasmic reticulum.

E. The Z line has to be lengthened to expose the actin binding site.

Correct Answer: B

QUESTION 12

The stigma of a flower serves what purpose?

- A. to fertilize
- B. to manufacture pollen
- C. to collect pollen
- D. to bait pollinators

Correct Answer: C

QUESTION 13

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 14

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 15

Select the correct word(s) for the blank in the following sentence.

They have lived in an apartment _____ they arrived in Chicago.

- A. for
- B. from
- C. since
- D. during

Correct Answer: C

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