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QUESTION 1

What is 80% of 500?

- A. 380
- B. 412
- C. 400
- D. 392

Correct Answer: C

QUESTION 2

How many meters in a kilometer?

- A. 10
- B. 100
- C. 1000
- D. 2.2

Correct Answer: C

QUESTION 3

A nurse working at a medical clinic earns \$17.81 per hour. The nurse works three 8-hour shifts and one 12-hour shift every week, and is paid weekly. Weekly deductions are: federal tax \$102.80, state tax \$24.58, federal insurance \$18.13, and family health insurance \$52.15. What is the nurse's take-home pay each week?

- A. \$158.54
- B. \$443.50
- C. \$514.74
- D. \$641.16

Correct Answer: B

QUESTION 4

What is the basic structure of an amino acid?

- A. An amine group, a carboxyl group, and a functional R-group.

- B. An amine group, a polar side chain, and a non-polar side chain.
- C. An amide group, an alcohol group, and a functional R-group.
- D. An amine group, and an amide group.

Correct Answer: A

QUESTION 5

What area(s) of the brain are the most affected if a person is unable to understand written or verbal speech?

- A. Weirnecke's area
- B. Broca's area
- C. Occipital lobe
- D. Parietal lobe
- E. A and B

Correct Answer: A

QUESTION 6

Which of the following creates a cramping sensation during intense exercise?

- A. Glucose
- B. Pyruvate
- C. Lactate
- D. Protein

Correct Answer: C

QUESTION 7

Which cells are responsible for bone formation?

- A. chondrocytes
- B. osteoclasts
- C. osteoblasts
- D. osteocytes

Correct Answer: C

QUESTION 8

Reading Material

(1)

A research team from the University of Bonn has succeeded for the first time in using light stimuli to stop life-threatening cardiac arrhythmia in mouse hearts. (2) Furthermore, as shown in computer simulations at Johns Hopkins University, this technique could also be used successfully for human hearts. (3) The study opens up a whole new approach to the development of implantable optical defibrillators, in which the strong electrical impulses of conventional defibrillators are replaced by gentler, pain-free light impulses. (4) The Journal of Clinical Investigation has now published the results. (5) Ventricular fibrillation! (6) When the heart muscle races and no longer contracts in an orderly fashion, sudden death often follows due to the lack of blood circulation. (7) In such an emergency, a defibrillator helps to restore normal heart activity by means of intense electrical shocks. (8) In patients with a known risk for these arrhythmia, the prophylactic implantation of a defibrillator is the treatment of choice. (9) If ventricular fibrillation is detected, a pulse of electricity is automatically generated, which normalizes the excitation of the heart muscle and saves the person's life.

(10)

"When an implanted defibrillator is triggered, which unfortunately can also happen because of false detection of arrhythmia, it is always a very traumatic event for the patient", says the head of the study, Junior-Professor Philipp Sasse of the Institute of Physiology I at the University of Bonn. (11) "The strong electrical shock is very painful and can even damage the heart further". (12) Therefore, Professor Sasse's team investigated the principles for a pain-free, gentler alternative. (13) As the scientists have now shown, ventricular fibrillation can be stopped by optical defibrillation.

According to the text, what inspired scientists to look for alternatives to the current defibrillators?

- A. With abundant light energy, scientists were looking for a way to put it to good use.
- B. Current defibrillators are outdated and expensive to implant.
- C. It worked on mice, so scientists thought it was possible that human patients could benefit from the technology.
- D. Current defibrillators can cause powerful, painful shocks to the heart, which may cause further damage.

Correct Answer: D

QUESTION 9

$$|7| + |-2| = ?$$

Note: This problem is the number -2 within an absolute value sign, not the number -21.

- A. 0
- B. 14
- C. 5
- D. 9

Correct Answer: D

QUESTION 10

What is $33.31 - 5.78$?

- A. 39.09
- B. 27.53
- C. 28.47
- D. 27.35

Correct Answer: B

QUESTION 11

The liver is an organ responsible for detoxifying the body of many harmful substances. Therefore, you might expect the liver to contain a high amount of:

- A. Rough endoplasmic reticulum.
- B. Lysosomes.
- C. Mitochondria.
- D. Smooth endoplasmic reticulum.

Correct Answer: D

QUESTION 12

In an ionic bond, a positively charged ion is attracted to what type of ion?

- A. anion
- B. cation
- C. it is not attracted to another ion
- D. neutral

Correct Answer: A

QUESTION 13

Monica bought 7 peaches at the grocery store for \$2.94. How many could she buy for \$4.62?

- A. 11

- B. 9
- C. 13
- D. 14

Correct Answer: A

QUESTION 14

What number would you need to multiply $\frac{3}{4}$ by to get an answer of 1?

- A. $\frac{3}{1}$
- B. $\frac{1}{4}$
- C. $\frac{4}{3}$
- D. $\frac{3}{2}$

Correct Answer: C

QUESTION 15

The primary stimulus for breathing is _____.

- A. carbon dioxide in the blood
- B. carbon monoxide in the blood
- C. carbon dioxide in the lungs
- D. oxygen in the lungs

Correct Answer: A

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