

TEAS-SECTION-2^{Q&As}

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QUESTION 1

Which of these statements is correct?

- A. An oxidizing agent removes oxygen or electrons from other substances.
- B. A reducing reagent either adds oxygen to, or removes electrons from, another substance.
- C. An oxidizing agent either adds oxygen to, or removes electrons from, other substances.
- D. A reducing agent removes oxygen from, or removes electrons to, another substance.

Correct Answer: C

QUESTION 2

Balance the following chemical equation by filling in the coefficients that should go in the blanks:

____Na + ____H₂O ____NaOH + H₂

- A. 2Na + 2H₂O 4NaOH + H₂
- B. 2Na + H₂O 3NaOH + H₂
- C. 3Na + 3H₂O 3NaOH + H₂
- D. 2Na + 2H₂O 2NaOH + H₂

Correct Answer: D

QUESTION 3

When does the nuclear division of somatic cells take place during cellular reproduction?

- A. mitosis
- B. meiosis
- C. cytokinesis
- D. interphase

Correct Answer: A

The nuclear division of somatic cells takes place during mitosis.

QUESTION 4

Gregor Mendel used pea plants to conduct experiments on genetics and heredity. He grew approximately 29,000 plants

to study seven characteristics: flower color, seed texture, seed color, stem length, pod color, pod texture, and flower position. Mendel was able to demonstrate that these characteristics were passed from one generation to the next and that the offspring could inherit the characteristics from either one, or from both, of the parent plants.

Referring to the passage, tell why it was important that Gregor Mendel used a large number of plants in his experiments into genetics and heredity?

- A. Pea plants are susceptible to disease, so he needed a lot of them to make sure enough would survive to adulthood to allow him to draw his conclusions.
- B. With a large number of plants, he could demonstrate that the results didn't just happen by chance.
- C. It wasn't important at all ?pea plants produce lots of seeds, so he planted them all to see what would happen.
- D. Plants don't have as many genes as animals, so he needed more of them to study genetics properly.

Correct Answer: B

QUESTION 5

Which element is essential for the normal production of the hormone thyroxine?

- A. phosphorus
- B. iodine
- C. calcium and vitamin D
- D. magnesium

Correct Answer: B

QUESTION 6

Pea plants can self-pollinate (sperm and eggs both come from the same plant) or they can cross-pollinate (sperm and eggs come from different plants). Gregor Mendel used this to study heredity. He found that if he took a plant that only produced yellow peas and crossed it with a plant that only produced green peas, all the offspring would only produce yellow peas. On the other hand, if he left the offspring (all yellow pea plants) alone and let them self-pollinate, then the second generation had a ratio of 3:1 yellow to green pea plants. Thus, Mendel could demonstrate that some traits are "dominant" while others are "recessive."

Referring to this passage, what could Gregor Mendel conclude from the result of his experiment with green and yellow pea plants?

- A. Green peas are a recessive trait.
- B. Pea plants have carbohydrates, like starch, that are coded for by their DNA.
- C. Inbreeding of pea plants causes mutations.
- D. All traits come in pairs and there is always a dominant trait and a recessive trait.

Correct Answer: A

QUESTION 7

What does the sympathetic portion of the autonomic nervous system control?

- A. breathing
- B. the "fight or flight" response to threats
- C. shivering when cold
- D. swallowing

Correct Answer: B

QUESTION 8

On each side of the body, the brachiocephalic veins are formed by the union of which two veins?

- A. external jugular veins and subclavian veins
- B. external jugular and internal jugular veins
- C. common carotid and subclavian veins
- D. internal jugular veins and subclavian veins

Correct Answer: D

QUESTION 9

Which of these patterns of the periodic table is not correct?

- A. In metallic groups, reactivity increases down a group.
- B. Atomic size increases down a group and across a period (from left to right).
- C. In non-metallic groups, reactivity decreases down a group.
- D. Densities and melting points increase down any group.

Correct Answer: B

QUESTION 10

Carbohydrates are macromolecules that can be divided into three main types.

Name the types of carbohydrates.

- A. monosaccharides, disaccharides, and polysaccharides

B. monosaccharides, polysaccharides, and glycosidic bonds

C. lipids, proteins, and nucleic acids

D. sugar, starch, and proteins

Correct Answer: A

QUESTION 11

Which of these statements regarding the process of fermentation is true?

A. It is an example of tissue respiration where yeast acts on carbohydrates to produce oxygen and alcohol.

B. It is an example of an aerobic process where yeast acts on a sugar solution to produce oxygen and alcohol.

C. It is an example of an anaerobic process where bacteria act on a protein solution to produce carbon dioxide and alcohol.

D. It is an example of an anaerobic process where yeast acts on a sugar solution to produce carbon dioxide and alcohol.

Correct Answer: D

QUESTION 12

For a given mass and constant temperature, an inverse relationship exists between the volume and pressure of a gas.

Which of the answer choices provided best defines the following statement?

A. Stefan-Boltzmann Law

B. Ideal Gas Law

C. Boyle's Law

D. Charles' Law

Correct Answer: C

Boyle's law states that for a constant mass and temperature, pressure and volume are related inversely to one another:

$PV = c$, where $c = \text{constant}$.

QUESTION 13

Which of these is not regulated by the parasympathetic nervous system?

A. increased glandular activity

- B. slowed heart rate
- C. increased intestinal activity
- D. constricted blood vessels

Correct Answer: D

QUESTION 14

The adrenal glands are part of the _____.

- A. respiratory system.
- B. emphatic system.
- C. endocrine system.
- D. immune system.

Correct Answer: C

The adrenal glands are part of the endocrine system.

They sit on the kidneys and produce hormones that regulate salt and water balance and influence blood pressure and heart rate.

QUESTION 15

Simple covalent compounds show which of the following properties?

- A. They are soluble in organic solvents e.g. ethanol.
- B. They conduct electricity when molten or dissolved in water.
- C. They are crystalline solids at room temperature.
- D. They have high melting and boiling points.

Correct Answer: A

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