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Topic Break Down

Topic	No. of Questions
Topic 1, Reading Practice	152
Topic 2, Science	81
Topic 3, Mathematics	107
Topic 4, English and Language Usage	164
Total	504

QUESTION NO: 1

Which of these statements is false regarding blood cells?

- A. Mature red blood cells are oval, bi-concave discs with a lifespan of 120 days.
- B. White blood cells are larger and less abundant than red blood cells.
- C. Phagocytes and lymphocytes are the most numerous types of white blood cells.
- D. Mature red blood cells are bi-concave discs that have a central nucleus and long life span.

ANSWER: D**QUESTION NO: 2**

The adrenal glands are part of the _____.

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

ANSWER: C**Explanation:**

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 NO: 3



An investor purchased a total of 800 shares of stock from six different corporations. The graph represents the total number of shares in his portfolio and shows the distribution of shares purchased from each company.

How many of the total shares were purchased from Dr. Pepper Snapple Group?

- A. 176
- B. 136
- C. 190
- D. 152

ANSWER: A

QUESTION NO: 4

If you are part of the team and if the attitude of another member is affecting the quality of your work, do not hesitate to initiate action in them.

- A. do not hesitate to initiate action in them.
- B. do not hesitate to initiate action on them.
- C. do not hesitate to initiate action upon them.
- D. do not hesitate to initiate action against them.
- E. do not hesitate to initiate action for them.

ANSWER: D**QUESTION NO: 5**

What type of text structure is used in this passage?

Eric and Billy purchased new bikes to use when they went off to college. Given the rising cost of gas, they felt the purchase was justified and reasoned that, living on campus, they would not require cars. Their mother, however, felt that a car should be shared between them, and presented them with a car as a gift. Following this gift, Eric and Billy returned one bike and determined that they could share both a car and a bike, reasoning that some gas savings was better than nothing.

- A. cause and effect
- B. sequential structure
- C. descriptive structure
- D. compare and contrast

ANSWER: B**QUESTION NO: 6**

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

ANSWER: C**Explanation:**

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 NO: 7

Which of these is an example of protein-related malnutrition?

- A. scurvy
- B. kwashiorkor

- C. rickets
- D. anemia

ANSWER: B

QUESTION NO: 8

Although it seems to have been a fixture of the square since the city's origin, the produce market actually opened only _____.

- A. enthusiastically
- B. recently
- C. frequently
- D. illegally
- E. graciously

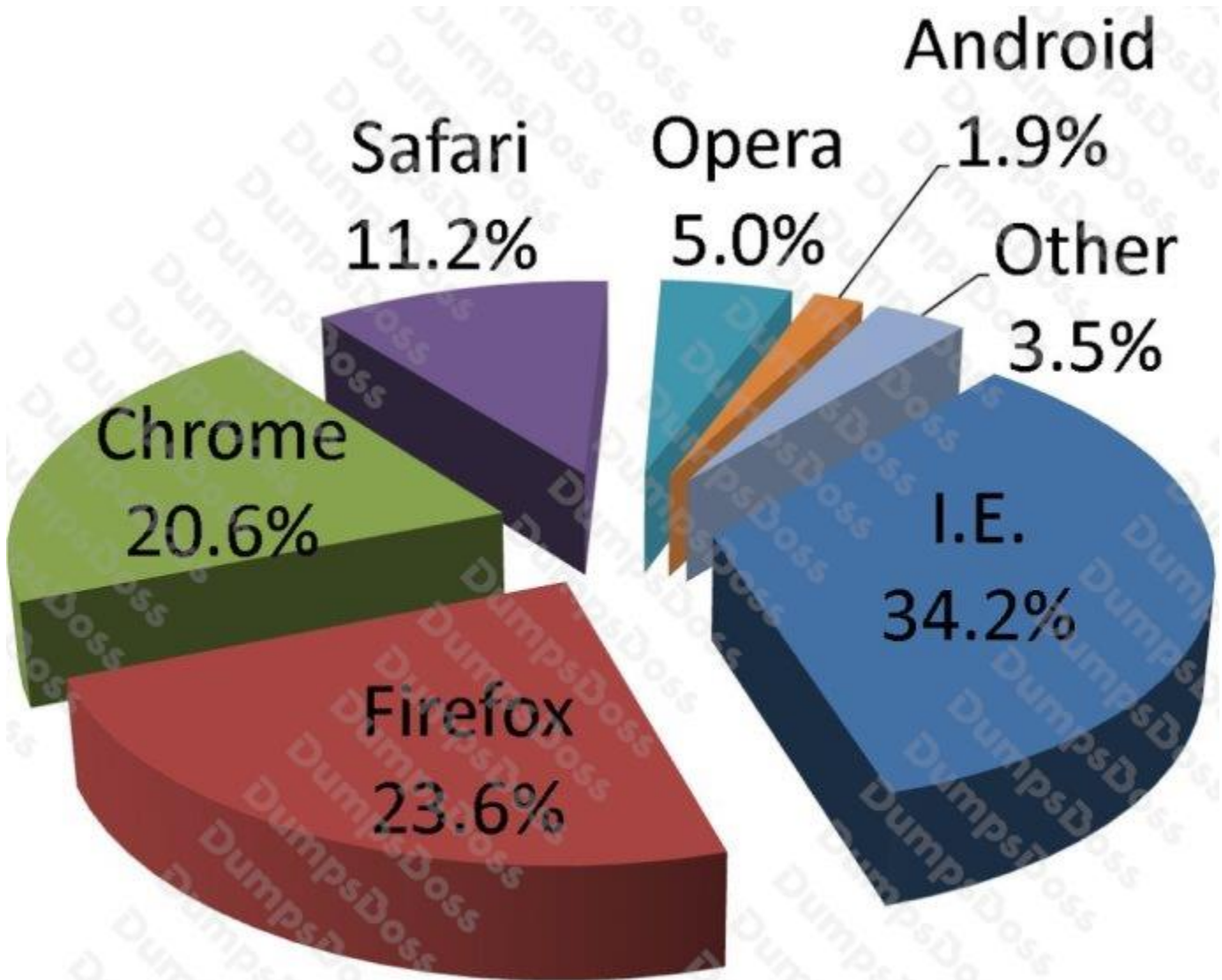
ANSWER: B

Explanation:

The use of the conjunction "although" indicates a contradiction within the sentence.

If the market seems to have been in existence since the city began, it must have been opened a long time ago. But the use of the conjunction "although" implies that this is not so. So, it must have been opened only recently. So, "recently" is the answer.

QUESTION NO: 9



Browser Usage on Wikimedia October 2011

The pie chart shows the percentage of computers using a given web browser when they visited the Wikimedia Commons site over the period of one month.

If 500 computers used Opera during that time, what was the total number of computers that visited the site?

- A. A total of 5,000 computers visited the site.
- B. A total of 2,500 computers visited the site.
- C. A total of 100,000 computers visited the site.
- D. A total of 10,000 computers visited the site.

ANSWER: D**QUESTION NO: 10**

The sententious woman finally relented, allowing Maria to walk to the pharmaceutical aisle.

What is the meaning of the word sententious?

- A. accommodating and readily available to help
- B. short-tempered and prone to random outbursts of anger
- C. kind, courteous
- D. given to moralizing, or exceedingly self-righteous

ANSWER: D**QUESTION NO: 11**

The _____ of modernist architecture _____ the natural human desire to celebrate the decorate, to take delight in ornament.

- A. elaborateness; neglects
- B. austerity; recognize
- C. embellishment; undermines
- D. severity; opposes
- E. uniformity; reflects

ANSWER: D**Explanation:**

The information that the second part of the sentence imparts is that there exists a natural human desire to celebrate and decorate, and to take delight in ornament. If modern architecture is "elaborate", it would be fulfilling, and not neglecting, this desire. So, "elaborateness; neglects" is wrong.

If modern architecture is "austere", it would be neglecting this natural desire, and not recognizing it. So, "austerity; recognize" is wrong.

If modern architecture is "embellishes", it would again be fulfilling by this natural desire, and not be undermining it. So, "embellishment; undermines" is also wrong.

If modern architecture is "severe" (meaning austere), it would be opposing this natural desire. So, "severity; opposes" leads to a logical sentence, and is the correct answer. Since there can be no uniformity about decoration or ornamentation, "uniformity; reflects" does not result in a logical sentence.

QUESTION NO: 12

A researcher is developing a new mold sealant designed to cover large areas. She plans to test the substance on a room with a total of 66 square meters of wall space.

If the product is designed to cover nine square meters of surface for every liter of compound, she will need to prepare a minimum of approximately how much sealant to cover the entire room?

- A. 594 milliliters
- B. 73 liters
- C. 73 deciliters
- D. 73 kiloliters

ANSWER: C**QUESTION NO: 13**

Which of these represents the correct order of some of the main energy changes that take place in a coal-fired power station?

- A. chemical, heat, kinetic, electrical
- B. kinetic, heat, electrical, chemical
- C. chemical, electrical, heat, kinetic
- D. heat, chemical, kinetic, electrical

ANSWER: A**QUESTION NO: 14**

The framework includes structures for implementing programs such as fun at work, individual development, talent recognition, and sports cultural events.

- A. fun at work, individual development, talent recognition, and sports cultural events.
- B. fun at work, individual development, and talent recognition, sports, cultural events.
- C. fun at work, individual development, talent recognition, sports and cultural events.
- D. fun at work, individual and development, talent recognition, sports cultural events.
- E. fun at work, and individual development, talent recognition, sports cultural events.

ANSWER: C**QUESTION NO: 15**

Although the colonist resented the new British laws, they _____ them as long as England did not _____ them too strenuously.

- A. rejected; define
- B. amended; follow
- C. tolerated; enforce
- D. defied; interpret
- E. welcomed; observe

ANSWER: C**Explanation:**

The use of the conjunction "although" indicates that there is a contradiction in means between the first and the second parts in the sentence. If the colonists resented (meaning hated) the new British laws, they must normally be expected to have protested against it. But because of the use of the conjunction "although" in the sentence, we must understand that their action was the opposite of protested.

The only choices for the first missing word which are the opposite of protested are "tolerated" and "welcomed." The pair word of "welcomed; observe" is not appropriate for the second mark because it was not British, but the colonists, who were expected to observe the new laws, while the role of the British, as the superior power, was to enforce the new laws. If the British did not enforce the new laws too strenuously, the colonists would not have minded tolerating them. So, it is "tolerated; enforce" the answer.

QUESTION NO: 16

What word may be used to replace maintaining without changing the meaning of the paragraph?

Andrew,

This year, Mom and Dad will be traveling to Hawaii for Christmas. Dylan and I hoped we could still get together at the house for the sake of maintaining tradition for our kids. If you and Susan don't mind, we'd like to arrive two days before Christmas, as always, and uphold our typical schedules. Because Mom and Dad won't be here, we'll need help making Christmas dinner and desserts, and will also need help decorating the house for Christmas. Could you bring lights and ornaments? We will be providing the tree. Finally, we need help transporting all of our presents and decorations this year. Would you mind storing some of our decorations in your car for the drive to Mom and Dad's?

Let me know!

– Sarah

- A. preserving
- B. delaying

- C. corresponding
- D. neglecting

ANSWER: A

QUESTION NO: 17

Mary is x years old. She is 6 years older than her twin brothers Sam and Paul.

What is the mean age of the three children?

- A. $x - 2$
- B. $x - 3$
- C. $x - 4$
- D. $x + 4$

ANSWER: C

QUESTION NO: 18

"The marathon runner paused for a quick _____ to tighten his shoelaces. They had become _____ over the course of the first four miles. " Choose the correct words to fill in the blanks in these sentences.

- A. break; loose
- B. brake; loose
- C. brake; lose
- D. break; lose

ANSWER: A

QUESTION NO: 19

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

ANSWER: D

QUESTION NO: 20

I could never be blamed because the matter was discussed beyond my back. I had no say in it.

- A. was discussed beyond my back
- B. was discussed between my back
- C. was discussed behind my back
- D. was discussed below my back
- E. was discussed beneath my back

ANSWER: C