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Practice Questions

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1. Determine the acceleration of a car traveling in a straight line when its speed increases from 0 to 50 meters per second in 6 seconds.

- A. 0.12 m/s²
- B. 8 m/h
- C. 12.4 m/s²
- D. 8.3 m/s²

2. A solid 600-g concrete block is struck by a 50-g rubber ball traveling at 1.75 m/sec. If the ball bounces backward off the block at 0.9 m/sec, what will be the speed of the concrete block?

- A. 0.22 m/sec
- B. 0.91 m/sec
- C. 0.07 m/sec
- D. 1.82 m/sec

3. A certain element has 45 protons and an atomic mass of 64. What is its atomic number?

- A. 32
- B. 45
- C. 19
- D. 67

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4. What event signifies the conclusion of the mitosis process?

- A. Telophase
- B. Prophase
- C. Metaphase
- D. Anaphase



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5. What type of tissue do neurons belong to?

- A. Epithelial
- B. Connective
- C. Muscle
- D. Nervous

6. What bodily system do the arteries and veins belong to?

- A. Endocrine system
- B. Cardiovascular system
- C. Respiratory system
- D. Neuromuscular system

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7. If a motorcycle travels 18,590 meters in 30 minutes, what is its average speed?

- A. 619.67 m/sec
- B. 103.28 m/sec
- C. 20.66 m/sec
- D. 10.33 m/sec

8. According to Mendel's First Law, what is the result of the cross between two parents with which of the following?

- A. Equivalent alleles for two traits
- B. Distinct alleles for a single trait
- C. Distinct alleles for two traits
- D. Equivalent alleles for a single trait

9. A table with a mass of 100 kg is placed on the floor and experiences two forces - a 50 N force pushing from the right and a 55 N force pushing from the left. What is the magnitude of the table's acceleration?

- A. 0.05 kg-m/sec²
- B. 110 kg-m/sec²
- C. 1050 kg-m/sec²
- D. 10.5 kg-m/sec²

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10. Which system does the vagina belong to?

- A. Integumentary system
- B. Genitourinary system
- C. Reproductive system
- D. Endocrine system

11. Friction is the force that opposes motion. How is friction typically expressed?

- A. Newtons
- B. Joules
- C. Amperes
- D. Ohms

12. A lab technician observed a cell sample through a microscope. The cells in the sample were thin, flat, and protruded around the nucleus. Which term best characterizes the type of cell the lab technician was observing?

- A. Polygonal
- B. Stellate
- C. Cuboidal
- D. Squamous

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13. What is one of the primary functions of prolactin, a hormone produced by the pituitary gland?

- A. Blood pressure regulation
- B. Estrogen regulation
- C. Milk production stimulation
- D. Healthy immune system development

14. In the process of cellular respiration, what does glycolysis convert to what?

- A. NADH, ATP
- B. Glucose, pyruvate
- C. Pyruvate, glucose
- D. NADH, pyruvate



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15. The element zinc (Zn) has an atomic number of 30. If the element carries a negative charge of 3, how many electrons does it possess?

- A. 27
- B. 10
- C. 14
- D. 33

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16. During the revision stage of writing, what should you do if you find that you did not maintain the proper voice throughout the writing process?

- A. Move material
- B. Add information
- C. Rework the material
- D. Delete information

17. "What part of speech is the word traveled in the sentence 'Samantha and Jason traveled to Boston via the train'?"

- A. Verb
- B. Noun
- C. Pronoun
- D. Proper noun

18. The golf club was thrilled to have accomplished both of their objectives. Which word in the given sentence is modified by the adjective 'both'?

- A. thrilled
- B. have
- C. objectives
- D. club

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19. After reading the given sentence, choose the meaning of the italicized word. Iron pills are prescribed for anemia, which is a hematologic disorder.

- A. Related to muscles and skeleton
- B. Related to the nervous system
- C. Related to the kidneys
- D. Related to blood

20. In North America, the Mississippi River flows from Minnesota to Louisiana. What is the main topic of the above statement?

- A. Minnesota
- B. Louisiana
- C. Mississippi River
- D. North America

21. Choose the correct definition for the word 'flaccid' from the options provided. The child's broken bone caused his arm to look flaccid.

- A. Limp
- B. Stiff
- C. Strong
- D. Painful

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22. Identify an instance of the past perfect tense from the options below.

- A. will describe
- B. indicated
- C. had offered
- D. has offered

23. What is the percentage equivalent of 0.04?

- A. 4%
- B. 40%
- C. 0.4%
- D. 0.04%



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24. Out of 150 individuals who took an exam, 54 passed and the rest failed. What is the ratio of those who passed to those who failed?

- A. $1/3$
- B. $3/8$
- C. $1/2$
- D. $9/16$

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25. Calculate: $2 + (6/2)$

- A. 7
- B. 2
- C. 5
- D. 4

26. Determine the value of y in the system of equations: $5x + 3y = 22$ $y = 2x$

- A. 5
- B. 4
- C. 2
- D. 3

27. Determine the value of t : $t/5 + 1/4 = 3/10 - 2t/5$

- A. $t = 3/20$
- B. $t = 3/100$
- C. $t = 1/4$
- D. $t = 1/12$

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28. If a water pump maintains a constant rate of 110 gallons per hour, how many 24-hour days will it take to fill a 55,000-gallon swimming pool?

- A. 55.50 days
- B. 20.83 days
- C. 50.00 days
- D. 41.66 days



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29. If a printer can print 15 colored pages per minute and starts printing at 4:00 p.m., what is the best estimate of when it will be finished printing 496 colored pages?

- A. 4:30 p.m.
- B. 4:20 p.m.
- C. 5:00 p.m.
- D. 4:45 p.m.

30. What is the percentage equivalent of 0.03245?

- A. 324.5%
- B. 3.245%
- C. 32.45%
- D. 0.325%



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Answer Key & Explanations

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1. D — 8.3 m/s²

To solve this problem, use the Acceleration formula. Acceleration = change in velocity ÷ time taken The car's initial speed is 0, and it reaches 50 m/s, resulting in a change in velocity of: 50 - 0 = 50 m/s It takes the car 6 seconds to reach the speed of 50 m/s, so the time taken is 6 s. Substitute these values into the acceleration formula: acceleration = 50 m/s ÷ 6 s acceleration = 8.3 m/s²

2. C — 0.07 m/sec

To find the speed of the concrete block (v₂), use the momentum equation (m₁v₁ + m₂v₂ = m₁v₁ + m₂v₂). v₂ = (m₁v₁ + m₂v₂ - m₁v₁) / m₂ Where the rubber ball is m₁, the concrete block is m₂, and the initial velocity of the concrete block is 0. v₂ = [(50 g x 1.75 m/sec) + (600 g x 0 m/sec) - (50 g x 0.9 m/sec)] / 600 g v₂ = 0.07 m/sec

3. B — 45

The atomic number of an element is equal to the number of protons in its nucleus. Given that the element has 45 protons, its atomic number is 45.

4. A — Telophase

The conclusion of the mitosis process is marked by Telophase. During this phase, the chromosomes assemble on opposite sides of the dividing cell. Mitosis is a four-step process that generates two identical cells from a single original cell. - Prophase, the first and longest stage of mitosis, involves the chromosomes becoming visible and the centrioles separating and moving to opposite ends of the cell. - Metaphase, the second stage of mitosis, sees the chromosomes aligning across the cell's center and attaching to the spindle fiber at their centromere. - Anaphase, the third stage of mitosis, entails the sister chromatids separating into individual chromosomes and being pulled apart. - Telophase, the fourth and final stage of mitosis, involves the chromosomes gathering at opposite ends of the cell and losing their distinctive rod-like shapes. Subsequently, two new nuclear membranes form around each of the two DNA regions, and the spindle fibers vanish.

5. D — Nervous

The brain, nerves, and spinal cord are composed of nervous tissue. Neurons form the nerves and transmit electrical signals throughout the body. Specific support cells, like myelin, serve to safeguard nervous tissue.

6. B — Cardiovascular system

The cardiovascular (circulatory) system is responsible for circulating blood and lymph throughout the body. This facilitates the distribution of nutrients, removal of waste, communication, and protection. The cardiovascular system comprises the heart, arteries, veins, plasma, lymph, lymphocytes, leukocytes, hemoglobin, and capillaries.

7. D — 10.33 m/sec

To find the average speed of the motorcycle, divide the distance traveled by the time taken: Average speed = Distance / Time. Since the answer options are given in m/sec, the time in minutes needs to be converted to seconds: x/30 min = 60 sec/1 min. x = (60 sec x 30 min)/1 min. x = 1800 sec. Then, divide the distance



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traveled (18,590 meters) by the time taken in seconds (1800 seconds) to find the average speed of the motorcycle: $18,590 \text{ m} / 1,800 \text{ sec} = 10.33 \text{ m/sec}$.

8. B — Distinct alleles for a single trait

Mendel's First Law, also known as monohybrid inheritance, involves the cross between two parents with distinct alleles for a single trait (gene). An example of a single trait that could be expressed is height. Mendel's Second Law, known as dihybrid inheritance, is the cross between two parents with different alleles for two traits. It is important to note that Mendel's Laws do not pertain to a cross between two parents with equivalent alleles.

9. A — 0.05 kg-m/sec^2

To determine the table's acceleration, you need to calculate the net force acting on it. The net force is the sum of all forces, taking into account that the forces in this scenario oppose each other, with the left force being positive and the right force negative. Net force = Left force + (-) Right force
Net force = $55 \text{ N} + (-) 50 \text{ N}$
Net force = 5 N
The net force is found to be 5 N to the left. Next, you can calculate the acceleration's magnitude using Newton's second law equation: Force = (mass)(acceleration)
 $5 \text{ N} = (110 \text{ kg})(\text{Acceleration})$
Acceleration = $5/110 \text{ kg-m/sec}^2$
Acceleration = 0.05 kg-m/sec^2

10. C — Reproductive system

The vagina is part of the female reproductive system, which also includes the cervix, uterus, urethra, ovaries, fallopian tubes, and estrogen. This system is responsible for producing eggs and supporting the fetus during pregnancy.

11. A — Newtons

Friction is commonly expressed in newtons, which can also be expressed in kg-m/sec^2 . Joules is the unit for measuring kinetic energy, while amperes measure electrical current. The resistance in Ohm's law is expressed in ohms.

12. D — Squamous

Squamous cells are thin, flat, and often protrude around the nucleus. Polygonal cells have irregularly angular shapes with four or more sides. Stellate cells resemble stars. Cuboidal cells are square-shaped.

13. C — Milk production stimulation

The endocrine system consists of a group of organs that release hormones directly into the bloodstream. Its main roles are hormone production and internal communication and coordination. The major glands in the endocrine system include the pineal, hypothalamus, pituitary, thyroid, parathyroid, thymus, adrenal, pancreas, and ovaries or testes. These glands secrete hormones into the blood to regulate the function of other organs and tissues in the body. One of the functions of prolactin is to stimulate milk production. The thymus is responsible for promoting healthy immune system development. The adrenocorticotropic hormone regulates blood pressure. The luteinizing hormone is involved in estrogen regulation.

14. B — Glucose, pyruvate

Glycolysis converts glucose to pyruvate in the process of cellular respiration. Cellular respiration occurs when chemical energy of food molecules is released and partially captured in the form of adenosine triphosphate (ATP).

15. D — 33

Given that the atomic number of zinc is 30 and it bears a negative charge of 3, it will possess 33 electrons.



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When an element carries a negative charge, the charge is added to the atomic number, resulting in $30 + 3 = 33$. When zinc is negatively charged by 3, it contains 33 electrons, not 10, 14, or 27.

16. C — Rework the material

If, during the revision stage of writing, you discover that you did not maintain the appropriate voice throughout the writing process, you should rework the material. Additionally, if the material is confusing, unclear, or needs simplification, it should be reworked. Unsupportive or redundant information should be deleted, material can be rearranged to create a clear flow or make a dramatic impact, and information can be added to provide more details, clarify ideas, or improve the overall flow.

17. A — Verb

A verb is a word that shows an action or state of being. Traveled is the word that describes the action in the sentence. Samantha and Jason are both nouns. Boston is a proper noun, which means it names a specific item and begins with a capital letter wherever it appears in a sentence. A pronoun is a word that replaces a noun (e.g., he/she, him/her, his/hers, himself/herself). Since there are no pronouns in this sentence, the choice of pronoun can be eliminated.

18. C — objectives

The adjective 'both' modifies the noun 'objectives' in the given sentence. A modifier helps to describe another word. An adjective is a word that modifies a noun or pronoun; therefore, the adjective 'both' would need to modify a noun or pronoun. In this case, the adjective 'both' is describing the golf club's 'objectives'. The adjective 'both' does not modify the words: club, thrilled, or have.

19. D — Related to blood

The word "hematologic" refers to blood. Iron pills are given for anemia, which is a blood disorder. The term "musculoskeletal" means related to muscles and skeleton. The term "neurologic" means related to the nervous system. The term "renal" means related to the kidneys.

20. C — Mississippi River

The subject of the given statement is the 'Mississippi River.' The subject of a sentence is the main noun that performs an action or is being described. The other three options are also nouns, but they are used in relation to the main noun: Mississippi River.

21. A — Limp

The word flaccid means limp or lacking tone. If you are unsure of the word's meaning, you can use the sentence to help you eliminate some of the options. The child had a broken bone; hence, you can discard strong and stiff as options because a broken bone would not cause the child's arm to look strong or stiff.

22. C — had offered

The phrase 'Had offered' exemplifies the past perfect tense by combining the past tense (offered) with 'had', indicating a specific point in the past in relation to another point in the past. Although 'indicated' is in the past tense, it does not convey a specific point in time, making it an example of the simple past tense rather than the past perfect tense. 'Will describe' is an example of the future perfect tense, as indicated by the use of 'will', signifying an action intended to take place in the future. 'Has offered' is an example of the present perfect tense, denoted by the use of 'has' to indicate an action that occurred in the past and continues to occur.

23. A — 4%

To convert a decimal to a percent, multiply it by 100 and add a percent sign. $0.04 \times 100 = 4\%$



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24. D — 9/16

Out of the total 150 individuals, 54 passed. To find out how many failed, subtract the number of those who passed from the total. $150 - 54 = 96$ The ratio of people who passed to people who failed is 54:96, or 54/96. Simplify the fraction by dividing the numerator and denominator by 6. $54/96 \div 6/6 = 9/16$

25. C — 5

The order of operations, as per PEMDAS (parentheses, exponents, multiplication, division, addition, subtraction), dictates that division should be performed before addition. $2 + (6/2) 2 + 3 = 5$

26. B — 4

Apply substitution method to solve the given system of linear equations. Replace y with $2x$ in the first equation, then solve for x . $5x + 3(2x) = 22$ $5x + 6x = 22$ $11x = 22$ $x = 2$ Substitute 2 for x in the second equation and solve for y . $y = 2(2)$ $y = 4$

27. D — $t = 1/12$

$t/5 + 1/4 = 3/10 - 2t/5$ To solve this equation, first find the common denominator, which is 20, and then convert all fractions accordingly. $(t/5 \times 4/4) + (1/4 \times 5/5) = (3/10 \times 2/2) - (2t/5 \times 4/4)$ $4t/20 + 5/20 = 6/20 - 8t/20$ Rearrange the equation to group common terms. $4t/20 + 8t/20 = 6/20 - 5/20$ Solve for t : $4t/20 + 8t/20 = 6/20 - 5/20$ $12t/20 = 1/20$ $12t = 1$ $t = 1/12$

28. B — 20.83 days

To find the total hours needed to fill the pool, use the formula $110 \text{ gallons} / 1 \text{ hour} = 55,000 \text{ gallons} / x \text{ hours}$, which simplifies to $110x = 55,000$. Solving for x gives 500 hours. Converting hours to days, $1 \text{ day} / 24 \text{ hours} = x \text{ days} / 500 \text{ hours}$, which simplifies to $24x = 500$. Thus, it will take approximately 20.83 days to fill the pool.

29. A — 4:30 p.m.

To find out how many minutes it will take to print 496 colored pages, set up a proportion: $15 \text{ pages} / 1 \text{ minute} = 496 \text{ pages} / x \text{ minutes}$. Solving for x gives $33 \frac{1}{15}$ minutes. Adding this to 4:00 p.m. gives 4:33 p.m., making 4:30 p.m. the closest option among the choices provided.

30. B — 3.245%

To convert a decimal to a percent, multiply it by 100 and add a percent sign. $0.03245 \times 100\% = 3.245\%$



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