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## Practice Questions

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1. What is the quantity of carbon dioxide molecules needed to balance the following reaction:  
 $4C_6H_{12}O_6 + 24O_2 \rightarrow \text{_____} CO_2 + 24H_2O + \text{Energy}$

- A. 8
- B. 4
- C. 16
- D. 24

2. Why is the utilization of the Latin language prominent in the present scientific nomenclature system?

- A. The system is very old and Latin was used at the time.
- B. The scientific community insists upon Latin because it is the language of science.
- C. Latin is easier to understand.
- D. Latin is a dead language that will not change.

3. Adhesion of platelets to collagen following damage to the endothelium is assisted by

- A. Platelet activating factor (PAF).
- B. Serine proteases.
- C. Von Willebrand factor.
- D. Glycoprotein IIb.

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4. Through which process is DNA replicated?

- A. Transformation
- B. Transcription
- C. Reduction
- D. Replication



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5. Which taxonomic rank is the next-smallest after Order?

- A. Genus
- B. Species
- C. Family
- D. Phylum

6. As amino acids are linked together, they form proteins. Amino acids like cysteine which contain a sulfur atom may covalently bond to each other, forming a disulfide bridge.  
What protein structure level is it?

- A. Secondary structure.
- B. Quaternary structure.
- C. Tertiary structure.
- D. Primary structure.

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7. An organism with chloroplasts in its cells is probably \_\_\_\_\_.

- A. An herbivore
- B. A primary consumer
- C. A heterotroph
- D. An autotroph

8. Which of the following comparisons between arteries and veins is true?

- A. Veins have thick, muscular walls, while arteries have thin, more compliant walls.
- B. Veins carry freshly oxygenated blood from tissue back to the heart, while arteries carry oxygen-depleted blood away from the heart.
- C. Veins have valves, and arteries do not.
- D. Veins have a smaller diameter than arteries.

9. What structure provides insulation for axons as action potentials move along?

- A. Synapse
- B. Ion channel
- C. Dendrite
- D. Myelin sheath

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**10. What type of mutation during meiosis can lead to an abnormal number of chromosomes in the offspring?**

- A. Replication
- B. Frame shift
- C. Non-disjunction
- D. Translation

**11.  Which picture represents the second insect phase shown?**

- A. Image A
- B. Image C
- C. Image D
- D. Image B

**12. By which enzyme is trypsinogen, an enzyme secreted by the pancreas, activated into trypsin in the duodenum?**

- A. enterokinase
- B. pepsin
- C. hydrochloric acid
- D. protease

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**13. Which is the best definition for the connotation of a word?**

- A. A word's former literal meaning, before it was re-defined to mean something different
- B. Alternate meanings of a word, such as slang
- C. Underlying meanings we associate with a word
- D. A word's literal meaning



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14. The Corps of Discovery Expedition, later called the Lewis and Clark Expedition, had both scientific and commercial objectives. Meriwether Lewis and William Clark were commissioned by President Thomas Jefferson to study the flora, fauna, geology, cartography (map making), topography (land features) and limnology (study of fresh water systems) of the interior of the northern United States from coast to coast.<br/><br/>The goal of these scientific objectives was to learn as much as possible about how to use these things for commercial or economic purposes. The expedition lasted from 1804-1806 and it produced a significant wealth of knowledge about a little known swath of the entire continent.<br/><br/>What was the primary purpose of the Lewis and Clark Expedition?

- A. To gather information to overtake and rule native Americans in new areas.
- B. To figure out the best route for a new transcontinental railroad.
- C. To carry out scientific studies on a region to learn how it could be exploited.
- D. To find the fastest route from coast to coast.

15. Sonja, I think it's time for us to open a new location. We've been talking about doing it forever and I'm afraid that if we don't do it now, we'll never do it.<br/><br/>I know it's a risky move, but the only way our business is going to grow is if we take calculated risks.<br/><br/>Business has never been better, and our focus group data shows that people in Springdale would love to have one of our stores in their mall.<br/><br/>If we do this right, we can be twice as profitable as we are now in three years. Let me know what you think.<br/><br/>Thanks, Gabriela<br/><br/>PS: We can even announce the expansion after that Channel 4 puff piece airs to take advantage of the attention we'll be getting!<br/><br/>Which of the following best captures the author's purpose?

- A. Improve a successful business by opening a second location.
- B. Position herself as a more powerful leader than Gabriela.
- C. Revitalize a struggling business by opening a second location.
- D. Convince a colleague that they should do more research on where to open a second location.

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16. We have said that argumentation is the art of producing in the mind of someone a belief in something in which we wish him to believe. Now it is obvious that this can be accomplished in different ways. Perhaps the most common method of attempting to bring someone to believe as we wish is the oral method. On your way to school you meet a friend and assert your belief that in the coming football game the home team will win. You continue: "Our team has already beaten teams that have defeated our opponent of next Saturday, and, moreover, our team is stronger than it has been at any time this season." When you finish, your friend replies: "I believe you are right. We shall win." You have been carrying on oral argumentation. If, when you had finished, your friend had not agreed with you, your effort would have been none the less argumentation, only it would have been unsuccessful. If you had written the same thing to your friend in a letter, your letter would have been argumentative. Suppose your father were running for an office and should make a public speech. If he tried to make the audience believe that the best way to secure lower taxes, better water, and improved streets would be through his election, he would be making use of oral argumentation. If he should do the same thing through newspaper editorials, he would be using written argumentation. Argumentation, then, may be carried on either in writing or orally, and may vary from the informality of an ordinary conversation or a letter to a careful address or thoughtful article. Based on the passage, what does the "variance" tell us about the responses?

- A. Variance tells us the spread of values within the sample.
- B. Variance describes the statistical center of the responses.
- C. Variance gives us a measure of the error in the responses.
- D. Variance describes the most frequent responses among the respondents.



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17. Careering madly in a motor car behind a herd of antelope fleeing like wind-blown ribbons across a desert which isn't a desert, past caravans of camels led by picturesque Mongol horsemen, the Twentieth Century suddenly and violently interjected into the Middle Ages and should be contrast and paradox enough for even the most sophisticated sportsman. I am a naturalist who has wandered into many of the far corners of the earth. I have seen strange men and things, but what I saw on the great Mongolian plateau fairly took my breath away and left me dazed, utterly unable to adjust my mental perspective.<br/><br/>When leaving Peking in late August, 1918, to cross the Gobi Desert in Mongolia, I knew that I was to go by motor car. But somehow the very names "Mongolia" and "Gobi Desert" brought such a vivid picture of the days of Kublai Khan and ancient Cathay that my clouded mind refused to admit the thought of automobiles. It was enough that I was going to the land of which I had so often dreamed.<br/><br/>In what narrative form is the passage written?

- A. First person singular
- B. First person plural
- C. Second person narrative
- D. Third person narrative

18. Choose the coordinating conjunction that would correctly complete the blank in the following sentence:<br/><br/>I've been cleaning the house all day, <code>\_\_\_\_\_</code> I'm going to rest now.

- A. For
- B. Thus
- C. Because
- D. So

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19. Select the option that corrects any errors in the underlined portion(s). If there are no errors, please choose "No change is necessary."<br/><br/>Did you get your (A) <u>inoculation</u> against malaria before you left for Africa? It was necessary since you went to a (B) <u>foriegn</u> country. Weren't you (C) <u>grateful</u> that you did?

- A. greatful
- B. innoculation
- C. No change is necessary.
- D. foreign



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**20. Select the option that rectifies the error using a comma, semicolon, dash, or colon.**  
The weather is a factor in ski jumping a lack of snow could be dangerous.

- A. The weather is a factor in ski jumping; a lack of snow could be dangerous.
- B. The weather is a factor, in ski jumping a lack of snow, could be dangerous.
- C. The weather, is a factor in ski jumping, a lack of snow, could be dangerous.
- D. The weather is a factor in ski jumping, a lack of snow could be dangerous.

**21. The sight of his broken coffee mug incensed Mr. Sacks, but we soon managed to pacify him by explaining it was an accident.** Which of the following words is an antonym that provides a clue to the meaning of incensed?

- A. Broken
- B. Pacify
- C. Accident
- D. Explaining

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**22. When would you incorporate brackets in your writing?**

- A. To indicate omitted words
- B. To combine adjectives
- C. To indicate spoken words in writing
- D. To add explanatory information to text

**23. Which of the following shows 74,365 rounded to the nearest hundred and to the nearest thousand?**

- A. Hundred: 74,300; thousand: 75,000
- B. Hundred: 74,400; thousand: 75,000
- C. Hundred: 74,300; thousand: 74,000
- D. Hundred: 74,400; thousand: 74,000

**24. Add:  $\frac{2}{5} + \frac{1}{3}$ .**

- A.  $\frac{3}{8}$
- B.  $\frac{11}{15}$
- C.  $\frac{1}{5}$
- D.  $\frac{3}{15}$



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25. What is the denominator of  $\frac{23}{78}$ ?

- A. 7
- B. 2
- C. 23
- D. 78

26. In a horse race, Horse A beat Horse B by 2 lengths, and Horse B finished 3 lengths ahead of Horse C. How many lengths did Horse C lose the race to Horse A by?

- A. 6
- B. 3
- C. 4
- D. 5

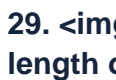
27. What must be true about a line graph for its slope to be a constant of proportionality?

- A. The line goes through the origin.
- B. The line goes through the (0,0) point.
- C. All of the answers are true.
- D. The graph is a straight line.

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28. How many square tiles, each 12 inches on a side, will Carol need to cover a floor that is 12 ft wide and 20 ft long?

- A. 180
- B. 360
- C. 240
- D. 200

29. What is the length of the side  $z$ ?

- A. 4.5
- B. 3
- C. 3.6
- D. 4



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**30. Which type of graph would be the most suitable to represent the proportion of a school's annual scholarship fund allocated to freshman students?**

- A. histogram
- B. line graph
- C. pie chart
- D. scatterplot



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## Answer Key & Explanations

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### 1. D — 24

In this reaction,  $4\text{C}_6\text{H}_{12}\text{O}_6 + 24\text{O}_2$  will produce  $24\text{CO}_2 + 24\text{H}_2\text{O} + \text{Energy}$ . The balanced equation shows that for every 4 molecules of glucose ( $\text{C}_6\text{H}_{12}\text{O}_6$ ), we need 24 molecules of oxygen ( $\text{O}_2$ ) to completely react. This will produce 24 molecules of carbon dioxide ( $\text{CO}_2$ ) and 24 molecules of water ( $\text{H}_2\text{O}$ ) along with the release of energy.

### 2. D — Latin is a dead language that will not change.

Latin is a dead language, meaning that it is no longer spoken as a native language by any community. As a result, Latin remains in a fixed and unchanging state, unlike living languages that evolve over time. This stability is crucial for the utilization of Latin in the present scientific nomenclature system because scientific terms need to have clear and consistent meanings across different languages and cultures.   
Option A) The system is very old and Latin was used at the time   
This answer is incorrect because the age of the system does not necessarily dictate the use of Latin in the present scientific nomenclature. While it is true that Latin was historically used in scientific literature and naming conventions, the current prominence of Latin in the scientific nomenclature system is not solely due to its historical usage.   
Option C) Latin is easier to understand   
This answer is incorrect because Latin is not inherently easier to understand than other languages. In fact, Latin can be quite complex and challenging for non-Latin speakers. The selection of Latin for scientific nomenclature is not based on its ease of understanding, but rather on its stability and consistency.   
Option D) The scientific community insists upon Latin because it is the language of science   
This answer is incorrect because the scientific community does not insist upon Latin as the language of science. While Latin may have been widely used in the past, the present scientific community utilizes various languages for scientific communication. The selection of Latin for scientific nomenclature is based on the need for a language that is stable and unchanging, rather than any insistence or preference from the scientific community.

### 3. C — Von Willebrand factor.

Upon damage to the lining of a blood vessel (endothelium) the body immediately takes steps to staunch the bleeding. Among the first things to occur is that platelets circulating in the blood bind directly to receptors in the collagen of the blood vessels. Von Willebrand factor, released by the endothelium and from the platelets, helps those platelets adhere to the collagen.   
Choices A and D are incorrect, as PAF and glycoprotein IIb are steps in the pathway of primary hemostasis that do not directly strengthen the initial adhesion of platelets to collagen although they are necessary for eventual healing. Serine proteases (choice C) are part of a different pathway, secondary hemostasis, or the coagulation cascade that leads to fibrin formation and clotting.

### 4. D — Replication

DNA replication is the process by which a DNA molecule makes an identical copy of itself. This process occurs during cell division and is crucial for the transmission of genetic information from one generation to the next. Replication involves the unwinding of the DNA double helix, the separation of the two strands, and the



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synthesis of new complementary strands using the existing strands as templates. It is a highly accurate and tightly regulated process that ensures the faithful replication of genetic material.

Option A)

Transformation: Transformation is a genetic process in which foreign DNA is introduced into a cell, resulting in the permanent alteration of the cell's genetic makeup. It is commonly used in genetic engineering and biotechnology.

Option B) Transcription: Transcription is the process by which the information stored in the DNA sequence is used to synthesize a complementary RNA molecule. It involves the synthesis of messenger RNA (mRNA) from a DNA template and is an important step in gene expression.

Option D)

Reduction: Reduction is a chemical process that involves the gain of electrons or the loss of oxygen atoms. It is not directly related to the replication of DNA.

### 5. C — Family

The taxonomy ranks run from largest to smallest: Kingdom, Phylum, Class, Order, Family, Genus, Species.

The next-smallest after Order is Family. A useful mnemonic for remembering is, 'King Philip Came Over For Great Spaghetti.'

### 6. C — Tertiary structure.

Generally, amino acids form through amide linkages also known as peptide bonds. Chains of those linkages form proteins. However, atoms on the side chains can form covalent bonds within the protein as well. That is referred to as the tertiary structure of the protein. Hydrogen bonding is considered part of the protein's secondary structure. The correct answer therefore, is (C).

### 7. D — An autotroph

Organisms that have chloroplasts in their cells carry on photosynthesis and are therefore autotrophs.

Autotrophs make their own food.

### 8. C — Veins have valves, and arteries do not.

Due to the lower pressure in the venous system and the fact that most blood is trying to return back to the heart against the force of gravity, veins have valves that prevent blood from moving backwards. Veins do not contain thick, muscular walls like arteries do. If venous walls were thick like arterial walls, there would be more resistance for blood flowing into veins. Since blood in the venous side is already under a lower pressure, this would create a problem for blood to return to the heart. Arteries have thick muscular walls due to the higher pressure of blood flow in the arterial side of circulation. Veins carry blood that is leaving tissue after it has unloaded oxygen, therefore they carry oxygen-depleted blood, along with metabolic waste back towards the heart. Venous blood carries oxygen-deficient blood back to the heart. Arteries carry oxygen-rich blood from the heart to tissues where oxygen can be delivered and used for cellular respiration. Due to the higher pressure in which arterial blood must flow, arteries have thicker walls and smaller lumen, or diameter, as compared to veins. Veins are often considered to be capacitance vessels as they carry a larger volume of blood, and have thinner walls, and greater wall compliance to accommodate the higher volume of blood.

### 9. D — Myelin sheath

The myelin sheath, composed of oligodendrocytes in the central nervous system and Schwann cells in the peripheral nervous system, provides insulation for the axon. As an action potential travels down an axon it essentially jumps between nodes that are not covered by myelin (call nodes of Ranvier). The myelin sheath is very similar to the covering on an electric cord.



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**10. C — Non-disjunction**

Non-disjunction is a type of mutation that can occur during meiosis, the process of cell division that produces reproductive cells (gametes). Normally, during meiosis, chromosomes segregate and are evenly distributed into the resulting gametes. However, non-disjunction occurs when chromosomes fail to separate properly, leading to an abnormal number of chromosomes in the resulting gametes.

Option A (Replication) refers to the process of DNA replication, which occurs prior to cell division. Replication is necessary for the accurate duplication of genetic material, but it does not directly affect the number of chromosomes in the offspring.

Option B (Translation) is the process by which ribosomes synthesize proteins using the genetic information carried by messenger RNA (mRNA). Translation is not directly related to the number of chromosomes in the offspring.

Option D (Frame shift) is a type of mutation that involves the insertion or deletion of nucleotides in a DNA sequence. Frame shift mutations can alter the reading frame of codons and result in changes to the entire sequence of amino acids in a protein. However, frame shift mutations do not directly cause an abnormal number of chromosomes in the offspring.

**11. A — Image A**

Image A is a diagram of the larval stage of the insect. The insect life cycle moves from egg (shown in Image D), to larva (shown in Image A), to pupa (shown in Image B), then finally to adult (shown in Image C).

**12. A — enterokinase**

Enterokinase is the enzyme responsible for activating trypsinogen into trypsin in the duodenum. Trypsinogen is a precursor enzyme secreted by the pancreas, and it needs to be activated in order to carry out its functions. Once enterokinase cleaves a specific peptide bond in trypsinogen, it becomes active as trypsin.

Option B) pepsin is incorrect because pepsin is a gastric enzyme that functions in the stomach, not the duodenum. Pepsin helps break down proteins in the stomach, but it does not play a role in activating trypsinogen.

Option C) hydrochloric acid is incorrect because hydrochloric acid is an acid secreted by the stomach, not the pancreas. While hydrochloric acid does play a role in digestion, it does not directly activate trypsinogen into trypsin.

Option D) protease is incorrect because "protease" is a general term for enzymes that break down proteins. While trypsin is indeed a protease, it is specifically activated by enterokinase, not by a generic protease enzyme.

In summary, enterokinase is the specific enzyme responsible for activating trypsinogen into trypsin in the duodenum.

**13. C — Underlying meanings we associate with a word**

Denotation is the literal definition of a word. Connotation is the figurative meaning of a word, the global and personal associations words carry.

**14. C — To carry out scientific studies on a region to learn how it could be exploited.**

The primary purpose of the Lewis and Clark Expedition was to carry out scientific studies on a region to learn how it could be exploited. The Lewis and Clark Expedition had both scientific and commercial objectives. The goal of the scientific objectives was to learn as much as possible about how to use these things for commercial or economic purposes, which also means how to exploit them.

**15. A — Improve a successful business by opening a second location.**

Because the author's first sentence mentions opening a new location. She also writes that, "business has never been better," which refutes answer choice (A), and also points off that they have already done the research necessary to prepare for this expansion, which refutes answer choice (D).



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**16. A — Variance tells us the spread of values within the sample.**

Based on the passage, the "variance" tell us the spread of values within the sample; a high variance means there were a lot of different values given by respondents.

**17. A — First person singular**

The use of the pronoun "I" in the passage indicates that the author is using a first person singular narrative. He is retelling his adventures while traveling through Mongolia in a motor car. With first person plural, typically "we" is used.

**18. D — So**

The second phrase follows the first, making 'so' the coordinating conjunction that is suitable.

**19. D — foreign**

This word is one that deviates from the "i before e" rule. There is only one "n" in "inoculation" and "grateful" is not spelled by beginning with "great."

**20. A — The weather is a factor in ski jumping; a lack of snow could be dangerous.**

When two closely related independent clauses are not joined by a coordinating conjunction, use a semicolon between them. Do not capitalize the first word in the second independent clause. Exercise caution to avoid creating fragments and run-on sentences when using commas, semicolons, and colons.

**21. B — Pacify**

The word pacify is an antonym of the word incensed. Mr. Sacks is incensed, or very angry, about his broken mug, but then calms down when he learns the explanation. Answer <i>pacify</i> is correct.

**22. D — To add explanatory information to text**

The bracket, which is similar to a square parentheses, adds explanatory information to text.

**23. D — Hundred: 74,400; thousand: 74,000**

The digit in the hundreds place is 3. It is rounded up to 4 because the digit in the tens place is 6, which is greater than or equal to 5. The number is thus rounded up to 74,400. The digit in the thousands place is 4, and remains 4 because the digit in the hundreds place (3) is less than 5. The number is therefore rounded to 74,000.

**24. B — 11/15**

$\frac{2}{5} + \frac{1}{3} = \frac{2}{5} * \frac{3}{3} + \frac{1}{3} * \frac{5}{5} = \frac{6}{15} + \frac{5}{15} = \frac{6+5}{15} = \frac{11}{15}$ .

**25. D — 78**

The denominator is the bottom number in a fraction. The bottom number of  $\frac{23}{78}$  is 78. Therefore, the denominator is 78.

**26. D — 5**

To determine the margin of Horse C's loss to Horse A, we need to add the lengths by which Horse A surpassed Horse B and the lengths by which Horse B finished ahead of Horse C.  
Horse A surpassed Horse B by a remarkable 2 lengths.  
Horse B finished ahead of Horse C by a remarkable 3 lengths.  
Therefore, the total margin of Horse C's loss to Horse A is 2 lengths (from Horse A surpassing Horse B) + 3 lengths (from Horse B finishing ahead of Horse C) = 5 lengths.

**27. C — All of the answers are true.**

For the slope to be a constant of proportionality the graph must be a straight line that also passes through the



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(0,0) point, a.k.a. the graph's origin.

**28. C — 240**

Find the area of the room by multiplying the length times the width:  $20 * 12 = 240$  square feet. Each tile measures 12 inches (or 1 foot) on a side, so each tile is 1 square foot. Carol will need 240 tiles to cover the floor.

**29. C — 3.6**

 Triangles ABC and ADE are similar. Therefore,  $BC/DE = AC/AE$   
 $\Rightarrow z/6 = 6/10$   
 $\Rightarrow z = 6 \times 6/10 = 3.6$ .

**30. C — pie chart**

A pie chart would most effectively represent the proportion of funds from a school's scholarship program allocated to first-year students each year. A pie chart is a circular chart divided into sectors, where each sector represents a portion of the whole. In this case, each sector of the pie chart would represent the proportion of funds allocated to first-year students for a specific year.

Option B) Line graph: A line graph is used to show how data changes over time or to compare different groups of data. It would not be the most effective choice for representing the proportion of funds allocated to first-year students each year, as it does not accurately represent proportions.

Option C) Scatterplot: A scatterplot is used to display the relationship between two numeric variables. It would not be suitable for representing the proportion of funds allocated to first-year students each year, as it does not provide a clear representation of proportions.

Option D) Histogram: A histogram is used to display the distribution of a single variable. It would not be the most effective choice for representing the proportion of funds allocated to first-year students each year, as it does not accurately represent proportions and is better suited for showing frequency or count data.

In conclusion, a pie chart would most effectively represent the proportion of funds from a school's scholarship program allocated to first-year students each year.



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