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Question: 1

What is the typical result of mitosis in humans?

- A. diploid cells
- B. haploid cells
- C. Four diploid cells
- D. Four haploid cells

Answer: A

Explanation:

The typical result of mitosis in humans is two diploid cells. Mitosis is the division of a body cell into two daughter cells. Each of the two produced cells has the same set of chromosomes as the parent. A diploid cell contains both sets of homologous chromosomes. A haploid cell contains only one set of chromosomes, which means that it only has a single set of genes. For the exam, you will need to know about all the different stages of cell division for both human and plant cells.

Question: 2

Which of the following is not a product of the Krebs cycle?

- A. carbon dioxide
- B. oxygen
- C. adenosine triphosphate (ATP)
- D. energy' carriers

Answer: B

Explanation:

Oxygen is not one of the products of the Krebs cycle. The Krebs cycle is the second stage of cellular respiration. In this stage, a sequence of reactions converts pyruvic acid into carbon dioxide. This stage of cellular respiration produces the phosphate compounds that provide most of the energy for the cell. The Krebs cycle is also known as the citric acid cycle or the tricarboxylic acid cycle. The exam may require you to know all stages of cellular respiration: the process in which a plant cell converts carbon dioxide into oxygen.

Question: 3

What kind of bond connects sugar and phosphate in DNA?

- A. hydrogen
- B. ionic
- C. covalent
- D. overt

Answer: C

Explanation:

The sugar and phosphate in DNA are connected by covalent bonds. A covalent bond is formed when atoms share electrons. It is very common for atoms to share pairs of electrons. Hydrogen bonds are used in DNA to bind complementary bases together, such as adenine with thymine or guanine with cytosine. An ionic bond is created when one or more electrons are transferred between atoms. Ionic bonds, also known as electrovalent bonds, are formed between ions with opposite charges. There is no such thing as an overt bond in chemistry. The exam will require you to understand and have some examples of these different types of bonds.

Question: 4

Which hormone is produced by the pineal gland?

- A. insulin
- B. testosterone
- C. melatonin
- D. epinephrine

Answer: C

Explanation:

Melatonin is produced by the pineal gland. One of the primary functions of melatonin is regulation of the circadian cycle, which is the rhythm of sleep and wakefulness. Insulin helps regulate the amount of glucose in the blood. Without insulin, the body is unable to convert blood sugar into energy. Testosterone is the main hormone produced by the testes: it is responsible for the development of adult male sex characteristics. Epinephrine, also known as adrenaline, performs a number of functions: It quickens and strengthens the heartbeat and dilates the bronchioles. Epinephrine is one of the hormones secreted when the body senses danger.

Question: 5

What is the name for a cell that does not contain a nucleus?

- A. eukaryote
- B. bacteria
- C. prokaryote
- D. cancer

Answer: C

Explanation:

Prokaryotic cells do not contain a nucleus. A prokaryote is simply a single-celled organism without a nucleus. It is difficult to identify the structures of a prokaryotic cell, even with a microscope. These cells are usually shaped like a rod, a sphere, or a spiral. A eukaryote is an organism containing cells with nuclei. Bacterial cells are prokaryotes, but since there are other kinds of prokaryotes, bacteria cannot be the correct answer to this question. Cancer cells are malignant, atypical cells that reproduce to the detriment of the organism in which they are located

Question: 6

Express your answer as a mixed number in simplest form: $4\frac{1}{3} \times \frac{2}{7} =$

- A. $6\frac{1}{3}$
- B. $3\frac{7}{10}$
- C. $\frac{8}{21}$
- D. $1\frac{5}{21}$

Answer: D

Explanation:

To solve this problem, you must know how to multiply mixed numbers and fractions. Unlike fraction addition and subtraction, fraction multiplication does not require a common denominator. However, it is necessary to convert mixed numbers into improper fractions. This is done by multiplying the whole number by the denominator and adding the product to the numerator: in this case, $4 \times 3 + 1 = 13$. So, the problem is now $\frac{13}{3} \times \frac{2}{7}$. Fraction multiplication is performed by multiplying numerator by numerator and denominator by denominator: $\frac{13 \times 2}{3 \times 7} = \frac{26}{21}$. This improper fraction can be converted into a mixed number by dividing numerator by denominator, which gives $1\frac{5}{21}$.

Question: 7

Express the answer as a mixed number or fraction in simplest form: $\frac{5}{8} \div \frac{1}{5} =$

- A. $\frac{1}{8}$
- B. $2\frac{3}{4}$
- C. $3\frac{1}{3}$

D. $3\frac{1}{8}$

Answer: D

Explanation:

To solve this problem, you must know how to divide fractions. The process of dividing fractions is similar to that of multiplying fractions, except that the second term must first be inverted, or replaced with its reciprocal. Once this is done, the numerator is multiplied by the numerator, and the denominator is multiplied by the denominator. This problem can be solved by multiplying $\frac{5}{8}$ by the reciprocal of $\frac{1}{5}$, which is $\frac{5}{1}$ or 5: $\frac{5 \times 5}{8 \times 1} = \frac{25}{8}$. Finally, convert this improper fraction into a mixed number according to the usual procedure.

Question: 8

Round to the nearest whole number: Bill got $\frac{7}{9}$ of the answers right on his chemistry test. On a scale of 1 to 100, what numerical grade would he receive?

- A. 77
- B. 78
- C. 79
- D. 80

Answer: B

Explanation:

To solve this problem, you must know how to convert a fraction into a ratio. In this problem, you are being asked to convert the fraction into a value on a scale from 1 to 100, which is basically like being asked to convert it into a percentage. To do so, divide the numerator by the denominator. The answer will be a repeating seven: 0.777 Calculate to the thousandths place in order to determine the value. Because the digit in the thousandths place is a 7, you will round up the digit to the left to establish the final answer, 78.

Question: 9

Change the fraction to a decimal and round to the hundredths place: $4\frac{3}{7} =$

- A. 4.37
- B. 4.43
- C. 4.56
- D. 4.78

Answer: B

Explanation:

To solve this problem, you must know how to convert mixed numbers into decimals. Perhaps the easiest way to perform this operation is to convert the mixed number into an improper fraction and then divide the numerator by the denominator. Convert the mixed number into an improper fraction by multiplying the whole number by the denominator and adding the product to the numerator: $4 \times 7 + 3 = 31$, so the improper fraction is $\frac{31}{7}$. Next divide 31 by 7, according to the same procedure used in problems 7 and 8. Remember that when you have to add 0 to 31 in order to continue your calculations, you must put a decimal point directly above in the quotient. Also, since the problem asks you to round to the hundredths place, you must solve the problem to the nearest thousandth.

Question: 10

Change the decimal to the simplest equivalent proper fraction: $0.07 =$

- A. $\frac{7}{10}$
- B. $\frac{0.07}{10}$
- C. $\frac{7}{100}$
- D. $\frac{70}{100}$

Answer: C

Explanation:

To solve this problem, you must know how to convert decimals into fractions. Remember that all of the numbers to the right of a decimal point represent values less than one. So, a decimal number such as this will not include any whole numbers when it is converted into a fraction. The 7 is in the hundredths place, so the number is properly expressed as $\frac{7}{100}$. The fraction cannot be simplified because 7 and 100 do not share any factors besides one.

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