

After an RNA molecule is transcribed from a eukaryotic gene, portions called _____ are removed and the remaining _____ are spliced together to produce an mRNA molecule with a continuous coding sequence.

a. operators ... promoters
b. exons ... introns
c. introns ... exons
d. silencers ... enhancers
e. promoters ... operators

Answer: Portions called introns are removed and the remaining exons are spliced together

Explanation:

The messenger RNA obtained after transcription is known as primary transcribed RNA or precursor RNA, and it has to undergo modifications before exerting its function. This is called RNA processing or maturation.

In the DNA sequence, the coding content of a gene is not continuously distributed along the gene, but has discontinuities, called introns, whose sequence does not encode proteins. The parts of the sequence that encode proteins are called exons. Through a process called splicing (which is one of the modification that are part of the RNA maturation), the introns are eliminated and the exons are joined forming a mature messenger RNA molecule that will be used for protein synthesis.

So the exons are part of the region of a gene that is not separated during the cutting and splicing process and is therefore kept in the mature messenger RNA. Each exon codes a specific portion of the entire protein, so that the set of exons forms the coding region of the gene.

Emilee signed a finance agreement for her recent purchase. what is the collateral for her loan? (to view the contract, click here.)

Which one of the following is an example of an entitlement? A. Receiving Social Security

B. The right to vote

C. Freedom of speech

D. Serving in the military

Which would be the best treatment for strep throat but not diabetes? chemotherapy, antibiotics, diet, or exercise

Ejercicio 1: Una persona tiene una masa de 60 kg, el área de sus pies es de 0.05 m². 1.- Calcule la presión que ejerce la persona al suelo al tener completamente sus pies sobre este.

Which of the following has not been a major change in the workforce within the last century? A.) more women in the workforce.
B.) greater emphasis on farming and manufacturing jobs.
C.) more minorities in the workforce.
D.) greater emphasis on sales and service jobs.

A pebble sinks in water . A twig floats on top of the water . Compare the densities of the two objects

Who handles research and coordinates the manufacturing process of food in a food processing firm? A. food production supervisors B. nutritionists and dietitians C. food safety and quality officers D. research and development technicians

A circular loop has radius R and carries current I_2 in a clockwise direction. The center of the loop is a distance D above a long, straight wire. What is the magnitude of the current I_1 in the wire if the magnetic field at the center loop is zero? Express your answer in terms of the variables I_2 , R , D , and appropriate constants (μ_0 and π).

Waste water treatment plant. A municipal water treatment plant for a small community. Waste water 32,000 m³/day, flows through the treatment plant with a mean residence time of 8 hr, air is bubbled through the tanks and microbes break down the organic materials. An entering feed has a BOD of 200 mg O₂/liter and the effluent has a negligible BOD. Find the rate of reaction in the treatment tanks.

What is 72% of 350 friends

Why did psychologists of the early 1900s stop defining psychology as the study of mind???

How does daisy's agreeing to come to nick's house without tom contribute to the theme changing in moral values?

Which of the following statements is true about the differences between bottled and tap water

PLZ HELP FAST 1.What statement about stimulants and depressants is correct? A. Stimulants speed up the way the brain works, and depressants slow it down.
B. Stimulants slow the activity of the brain, and depressants speed it up. 2.True or False: Narcotics are powerful depressants that are not addictive.

A.

true

B.false

3.True or False: Abuse of anabolic steroids can be life-threatening.

A.

True

B.

False

P.S Plz Answer All

The hand-withdrawal reflex involves only the spinal cord, so it takes time before Cherise is babysitting for her two-year-old nephew for the first time. While her back is turned, he touches his index finger to the pan she just took out of the oven. He pulls his finger away quickly, and a few seconds later begins to scream.

Why is his screaming delayed in comparison to pulling away his finger? T/F

In which country would you call a guagua?

Argentina

Spain

Cuba

Columbia

Marsupials are found in North America and Australia, but they would not have been able to swim across the ocean. According to scientists, how did this group of organisms come to live on two separate continents?

What is three equivalent fractions to $\frac{75}{100}$

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