

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.

Which is the best definition of hoax?

What year did the Beatles release their first album and start the British Invasion?

Craig said he had forgiven Josh for a past disagreement, but whenever Josh goes out with the group, Craig seems to stay at home. Which of Craig's attitudes toward Josh likely remains negative?

- a. simple
- b. complex
- c. explicit
- d. implicit

Dr. Higgs exposes rats to a vanilla scent prior to receiving a food pellet in the left corner of their cage, but provides no food after exposure to a lemon scent. After several trials, upon smelling a vanilla scent, the rats wait at the far left corner of the cage regardless of whether a food pellet is present. However, they do not wait in the far left corner when exposed to the lemon scent. What is the unconditioned stimulus in the experiment?

Which three of the following statements are consistent with the images? a. In a sea turtle's flippers, heat is transferred from (3) to (1). b. In a sea turtle, blood warms as it flows from the body (1) to the tip of the flipper (2). c. In a sea turtle's flippers, heat is transferred from (1) to (3). d. At a dolphin's testes, heat is transferred from (2) to (1). e. In a dolphin, blood cools as it flows from the aorta to the testes. f. At a dolphin's testes, heat is transferred from (1) to (2).

List the steps of the accounting cycle in their proper order.

You walk with a velocity of 2 m/s north. You see a man approaching you, and from your frame of reference he has a speed of 3 m/s to the south. What is the velocity of the man from the frame of reference of a stationary observer? is it 5m to the south??

When the bore is larger than the stroke, the engine is A. freewheeling.

B. undersquare.

C. even.

D. oversquare.

The average speed of the plane was 388 miles per hour and the flight across the Pacific was 14 hours long. How many miles did the plane fly?

Students who fall behind in their school work will never be able to get jobs and will end up living with their parents forever.

HELP Which of the following passages is an example of a characteristic of a slave narrative from Narrative of the Life of Frederick Douglass?

A. "It is a common custom, in the part of Maryland from which I ran away, to part children from their mothers at a very early age."

B. "They seldom come nearer to it than planting time, harvest-time, cherry-time, spring-time, or fall-time."

C. "For of all slaveholders with whom I have ever met, religious slaveholders are the worst."

D. "My father was a white man."

1. Flicks for Four Families Four families go to the cinema. The Reid family

take 2 adults and 2 children for £18; the McGhee

family take 1 senior, 2 adults and 1 child for

£18.50; and the Griffiths family take 1 senior and

3 adults for £19.50. How much will it cost for the

Linton family to take 1 senior, 2 adults and 3

children?

At Kentucky Fried Chicken, the kitchen staff baked 96 chicken legs, 144 thighs, and 224 wings. The staff had to prepare platters for a catered lunch at an office.

Each platter will have the same number of legs, thighs, and wings. How many platters can the staff make if they want the greatest number of chicken pieces on each platter?

Simplify the expression. $6nx+7p-14p+2nx-6x$

Many international firms are increasing their efforts to market their products and services to countries such as India and China as the ranks of their middle class continue to increase. A. True

B. False

Which of the following substances is used up during photosynthesis? Oxygen Sugar Sulfur dioxide Water

$[12+(9-d^2)-6] \cdot 2d$ and $d=3$

2. How were the inner and outer planets formed?

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