

**Glucose diffuses slowly through artificial phospholipid bilayers. The cells lining the small intestine, however, rapidly move large quantities of glucose from the glucose-rich food into their glucose-poor cytoplasm. Using this information, which transport mechanism is most probably functioning in the intestinal cells?**

Answer:

Facilitated diffusion

Explanation:

According to the given information, glucose is able to diffuse through the phospholipid bilayers. Both simple and facilitated diffusion transport glucose down its concentration gradient, that is, from the region of higher concentration of glucose to that of its lower concentration.

However, simple diffusion does not use the membrane proteins and is a slow process. Facilitated diffusion of glucose occurs through transmembrane proteins (channels and carriers) that serve to facilitate the transport of glucose across the bilayer at a relatively fast rate. Therefore, the transport of glucose in intestinal cells occurs by facilitated diffusion.

If you wanted to measure the width of the gym, how would the accuracy of a meter stick compare with that of a 50m tape

What was a immediate cause of the panic of 1837

A bug population doubles every week. If the starting population is 10,000, which equation models the population,  $y$ , and the number of weeks,  $x$ ?

Employee's must wash there hands before returning to work

What are two error

Which publication does the cdc generally use to quickly notify providers of updates to vaccine recommendations?

A light source of wavelength  $\lambda$  illuminates a metal with a work function (a.k.a., binding energy) of  $BE=2.00$  eV and ejects electrons with a maximum  $KE=4.00$  eV. A second light source with double the wavelength of the first ejects photoelectrons with what maximum kinetic energy?

Which of these is not a complete sentence?

I am.

He runs.

Joey and Kayla.

Given the roles of NAD /NADH in dehydrogenation reactions and NADPH/NADP in reductions, complete the sentence to explain why the intracellular ratio of NAD /NADH is expected to be high or low? What about the ratio of NADP+ to NADPH? Explain your answer.

List and define the two main problems when heavy pumping of wells occurs?

Which of the following is a protein essential for regulating gene expression? A. transcription factors

B. operator genes

C. promoter genes

D. structural genes

A projectile is launched from ground level with an initial velocity of  $v_0$  feet per second. Neglecting air resistance, its height in feet  $t$  seconds after launch is given by  $s = -16t^2 + v_0t$ . Find the time(s) that the projectile will (a) reach a height of 288 ft and (b) return to the ground when  $v_0 = 144$  feet per second. (a) Find the time(s) that the projectile will reach a height of 288 ft when  $v_0 = 144$  feet per second. Select the correct choice below and, if necessary, fill in the answer box to complete your choice.

What does the word "foot" mean in regards to poetry?

Which sentence is written correctly with subject-verb agreement? A. Neither the public prosecutor nor the defense lawyer was happy with the case's outcome.

B. Not one out of twenty mathematicians were able to solve the problem set before them.

C. One of the new students in my class are educated at a school in Switzerland.

A change from one phase to another involves

Assume 90% of all emails sent is spam. Based on this information, a machine learning startup Spamalot Inc. claims to have solved the email spam detection problem: for any new email, with probability 0.9 they categorize the email as 'spam' and otherwise the email is marked as 'not spam.' Will the method correctly categorize all future emails? If yes, briefly explain why. If not, what will be the accuracy of the method? Briefly explain your answer.

"New States may be admitted by the Congress into this Union; but no new State shall be formed or erected within the Jurisdiction of any other State; nor any State be formed by the Junction of two or more States, or Parts of States, without the Consent of the Legislatures of the States concerned as well as of the Congress."—U.S. Constitution WHICH OF THE FOLLOWING IS TRUE BASED OFF THIS QUOTE?

A. The power to make new states is a delegated power.

B. The power to make new states is a concurrent power.

C. The power to join states together is an implied power.

D. The power to join states together is a reserved power.

Explain this quote:

Have no friends not equal to yourself - Confucius

Using your knowledge of roots, choose the best word to complete the following sentence: Love, fear, betrayal, and laughter are \_\_\_\_\_ to

the human experience. claustrophobic  
hypnotic  
sophophobic  
pandemic

1. [Home](#)
2. [More Solution](#)