A plot of enzyme activity (y-axis) versus substrate concentration (x-axis) with other variables constant is a?

Sele	ect one:
	a. Straight line with an upward
	slope.
	b. Line with an upward slope and
	a long flat top.
	c. Line with an upward slope
	followed by a downward slope.
	d. Straight horizontal line.
	e. S-shaped curve

## Question 2

Not yet answered

Marked out of 1.00



Flag question

When [S] = Km, the velocity of an enzyme catalyzed reaction is about? Select one: a. 0.1 Vmax b. 0.9 Vmax c. 0.4 Vmax d. 0.7 Vmax e. 0.5 Vmax

One of the following descriptions best describes an induced fit? Select one: a. Alteration of the shape of enzyme such that it is ready to accept a substrate. Adopting the correct binding conformation of the substrate before entering an active site. c. Substrate binding to an active site and the alteration of its shape of. d. Adopting of the active site correct conformation by shape of enzyme and substrate alteration. e. Adopting the active site correct conformation by metal ions

Not yet answered

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Flag question

For an enzyme that follows Michaelis- Menton kinetics, Km is equal to?			
Selec	ct one:		
	a. The [s] at one-half Vmax		
	b. The v at one-half Vmax		
	c. The [s] at one-half v		
	d. The v at one-tenth Vmax		
	e. Two times the Vmax		

Not yet answered

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Flag question

The enzyme kinetic that describes a theoretical value achieved when all enzyme substrate binding sites are occupied by the substrate?

## Select one:

- a. Km
- b. Km/k1+k2
- c. K-1/Km
- d. K1+k2/k-1+k-2
- e. Vmax

Each enzyme can speed up only one particular reaction. This specificity is due to the?

Sele	ect one:
	a. Shape of both the enzyme and the substrate
	b. Lowering of the energy of activation
	c. pH of the surrounding medium
	d. Temperature of the surrounding
	medium
	e. Permanent binding of the
	enzyme-substrate complex

Which of the following statements about Michaelis-Mentenkinetics is correct? Select one: a. Michaelis-Menten kinetics assumes covalent binding occurs between enzyme and substrate. b. Michaelis-Menten kinetics assumes the formation of ES complex first. c. Michaelis-Menten kinetics is applied to the zero order reaction only. d. Michaelis-Menten kinetics is applied to all enzymes including allosteric enzymes. e. Michaelis-Menten kinetics is applied to the first and zero order reactions.

In reversible non-competitive inhibition of enzyme activity, which of the following statements is correct? Select one: a. Km is decreased b. Amount of ES complex is not changed c. Concentration of active enzyme is reduced d. Amount of ES complex is increased e. Vmax is increased

Coenzymes, the cofactors that are loosely attached to the enzyme and acting as recyclable shuttles?

## Select one:

- a. Heat stable, dialyzable, protein organic molecules
- b. Each one is not specific for only one enzyme
- c. Soluble, colloidal, protein molecules
- d. Structural analogue of enzymes
- e. Different forms of enzyme

Not yet answered Marked out of 1.00 Flag question What enzymes help pathogens avoid host defenses or promote their multiplication in tissue? Select one: a. Induced enzymes b. Exoenzymes c. Endoenzymes d. Coenzymes e. Constitutive enzymes

Flag question

An allosteric activator that affects Km but not Vmax does so by?

## Select one:

- a. Altering enzyme conformation to promote substrate binding
- b. Altering enzyme conformation to increase Vmax
- c. Altering enzyme conformation to prevent binding of a competitive inhibitor
- d. Altering enzyme conformation to prevent E+P→ES
  - e. Altering enzyme conformation to dissociate ES into E+S

Aspirin is a suicidal inhibitor of cyclooxygenase enzyme by? Select one: a. Adding methyl group to the active site of the enzyme b. Blocking a functional group in the active site of the enzyme c. Causing conformational changes in the active site of the enzyme d. Blocking the active site preventing the release of the product e. Denaturing the enzyme

Which of these statements regarding enzymes is false?	
Select one:	
a. Enzymes provide activation	
energy for the reactions they	
catalyze.	
b. Enzymes are proteins that	
function as catalysts.	
c. The activity of enzymes can be	
regulated by factors in their	
immediate environment.	
d. Enzymes display specificity for	
certain molecules to which they	
attach.	
e. An enzyme may be used many	
times over for a specific reaction.	

The effect of non-competitive inhibition on a Lineweaver-Burk Plot is that?

Select one:

a. It can move the entire curve to the right

b. It can change the y-intercept

c. It can change the x-intercept

d. It can move the entire curve to the left

e. It can change both the x- and y-intercepts