

- 1) **True** or False: You cannot pass the class unless you pass the laboratory as well.
- 2) Using Pullman as an example and the data provided, in what months does PET exceed the actual amount of precipitation? (circle the month(s))

Jan Feb Mar Apr May Jun **Jul Aug Sep** Oct Nov Dec

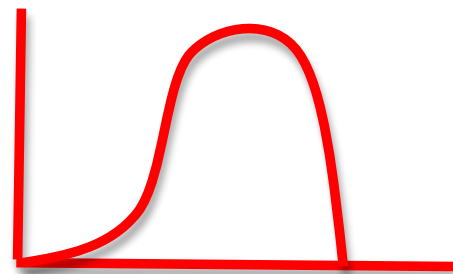
- 3) How might an individual organism (e.g., trout) maintain close to optimal enzymatic activity under changing temperatures when the genes for those enzymes remain fixed?

- a) it might go into torpor to avoid very hot or cold temperatures
 b) it might develop new enzymes to match the current conditions
 c) **it might express different versions of the enzyme, each with different thermal optima**

- 4) Growth and reproduction of organisms are usually limited by

- a) environmental temperature (half points)
 b) the rarest element
 c) **the rarest resource**

- 5) Draw a typical enzymatic activity curve on the axes to the right.



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