

Name _____

AP BIOLOGY EXAM TEN

FREE RESPONSE QUESTION

The unit of genetic organization in all living organisms is the chromosome.

- (a) **Describe** the structure and function of the parts of a eukaryotic chromosome. You may wish to include a diagram as part of your description.
- (b) **Describe** the adaptive (evolutionary) significance of organizing genes into chromosomes.
- (c) How does the function and structure of the chromosome differ in prokaryotes?