

AP Biology Chapter 18 Worksheet Part B

1. Explain what it means to say that bacteria are very adaptable.
2. What is the main component of the bacterial genome?
3. Explain the function of a nucleoid.
4. Explain what a plasmid is and what it consists of.
5. Explain how bacteria cells divide.
6. Are most bacteria in a colony clones? Explain
7. Can bacteria spontaneously mutate? Explain
8. Explain the relationship between reproductive rates in bacteria and their genetic diversity through mutations.
9. Contrast human genetic variation to bacterial generation.
10. Explain what is meant by genetic recombination with regard to bacterial populations.
11. Give the three ways recombination can occur in bacteria.
12. Explain what is meant by transformation.
13. Explain how a harmless streptococcus bacteria can be turned into a pneumonia causing one.
14. How is naked DNA taken up by a bacteria?
15. Explain how E. coli can be induced to take up small pieces of naked DNA.
16. Explain what is meant by transduction.
17. Explain generalized transduction.