

Chapter 3 Study Guide

DO NOT WRITE ON THE FRONT!

1. For how many amino acids does the DNA sequence “ACCTAAGTTGACC” code ?
2. What process made Dolly the sheep?
3. What do squares mean on a pedigree?
4. What do circles mean on a pedigree?
5. What does the mutation that causes sickle anemia do to red blood cells?
6. What can a mutation result in? (4 things)
7. What do we call the “factory” of the cell through which the protein assembly line is fed?
8. What is 30,000 X 30,000?
9. What does a 1/2 filled symbol on a pedigree mean?
10. What shape did Rosalind Franklin’s Xray images show DNA?
11. What are the 3 parts of a nucleotide?
12. What comprises the rungs of the DNA ladder?
13. Be able to identify an illustration of DNA.
14. What are the 3 types of mutations and their characteristics?
15. Which part of the DNA model attaches to amino acids?
16. Name 3 examples of mutagens.
17. What is the term for the blending of traits due to neither gene dominating?
18. What is a variation of a gene? (not a mutation)
19. Are most genetic disorders dominant or recessive?
20. What are the 2 components of chromosomes?
21. What is a change in the order of DNA bases called?
22. Know all about DNA!