Study Guide Chapter Test – Heredity

1. **An example of incomplete dominance**
2. **An organism’s genetic material**
3. **Enrique has a red-flowering camellia plant and a white-flowering camellia plant. The next spring, a pink-flowering camellia plant grows. What type of interaction does the pink flowering plant show?**
4. **A dairy farm bred a true-breeding hairless cow with a true-breeding cow that had hair. The offspring had hair. Which word best describes the hairless gene?**
5. **A nucleotide is to a chromosome as \_\_\_\_**
6. **New plant species are discovered. Biologists note that some flowers have royal blue petals and that others have white petals. A biologist cross-pollinated white-flowering plants with blue-flowering plants. What color petals will be observed if there is incomplete dominance?**
7. **The passing of traits from parents to offspring is heredity. T/F**
8. **Occurs when multiple genes determine the phenotype of a trait is polygenic inheritance. T/F**
9. **Offspring of parents with different forms of the same trait is hybrid T/F**
10. **Section of a chromosome with genetic information for one trait is gene. T/F**
11. **phenotypes of genetically related family members is Punnett square T/F**
12. **different forms of a gene is mutation T/F**
13. **change in the nucleotide sequence of a gene**
14. **having two different alleles of a gene**
15. **having two of the same allele for a gene**
16. **process of making protein from RNA**
17. **process of making RNA from DNA**
18. **the nucleic acid used to make proteins is RNA T/F**
19. **The passing of traits from parents to offspring is called**
20. **Base pairs are added to the DNA sequence in a(n)\_\_\_\_\_\_\_\_\_ mutation.**
21. **How many types of RNA exits? (only write the number)**
22. **A section of a chromosome that has genetic information for one trait is**

**a(n)\_\_\_\_\_\_\_\_\_**

**23) Occurs when multiple genes determine the phenotype of a trait is polygenic inheritance. T/F**

1. **Offspring that result from the cross of parents with different forms of the same trait are called \_\_\_\_\_\_**
2. **\_\_\_\_\_\_\_\_\_\_occurs when multiple genes determine the phenotype of a trait.**

**There will be 25 questions (6 Multiple choice, 8 T/F, and 11 short answer)**