Relationship of DNA & Chromosomes Test

Part 1 – Multiple Choice: Choose the best answer for each question.

1. DNA stands for:
   a. Deoxyribonucleic Acid
   b. Dynamic Nuclear Acid
   c. Double Nitrogen Atom
   d. Deoxynitrogen Acid

2. Chromosomes are found in the:
   a. Cell membrane
   b. Cytoplasm
   c. Nucleus
   d. Ribosome

3. What is the relationship between DNA and chromosomes?
   a. Chromosomes are made of DNA
   b. DNA is made of chromosomes
   c. They are unrelated
   d. Chromosomes destroy DNA

4. Genes are:
   a. Tiny organs
   b. Sections of DNA that control traits
   c. Types of cells
   d. Plant roots

5. Humans normally have how many chromosomes?
   a. 23
   b. 92
   c. 46
   d. 12

6. Which structure carries hereditary information?
   a. DNA
   b. Water
   c. Oxygen
   d. Protein only

7. Chromosomes become visible during:
   a. Digestion
   b. Cell division
   c. Photosynthesis
   d. Respiration

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8. Traits passed from parents to offspring are called:
   a. Acquired traits
   b. Inherited traits
   c. Learned traits
   d. Temporary traits

9. Which of the following is TRUE?
   a. DNA is found inside chromosomes
   b. Chromosomes are found inside DNA
   c. Genes are larger than chromosomes
   d. DNA is not related to heredity

10. The main job of DNA is to:
    a. Pump blood
    b. Carry genetic instructions
    c. Digest food
    d. Produce sunlight

Part 2 – Fill in the Blank

Word Bank

Genes nucleus DNA cell division
chromosomes traits heredity 46

11. _____ contains the genetic instructions for living things.

12. _____ are threadlike structures made of DNA.

13. Sections of DNA that control characteristics are called _____.

14. Chromosomes are located in the _____ of the cell.

15. The passing of traits from parents to offspring is called _____.

16. Humans normally have _____ chromosomes.

17. Eye color and hair color are examples of _____.

18. Chromosomes are easiest to see during _____.

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Part 3 – Matching: Match each term with the correct definition.

Column A	Column B
19. DNA	a. Structure that carries DNA
20. Gene	b. The control center of the cell
21. Chromosome	c. Molecule containing genetic information
22. Nucleus	d. A section of DNA that controls a trait
23. Heredity	e. Passing traits from parents to offspring

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