

Name: _____ Date: _____

GENETICS

1. occurs when certain genetic mutations in a cell can result in uncontrolled cell division. Cancer can be caused either by heredity or environmental factors like radiation, chemicals or virus. A. RNA
2. is the passing of genetic information from one generation to the next through reproduction. B. Substitution
3. . The hereditary information----is organized in the form of genes located in the-----of each cell. C. Addition
4. Identical Cells, 1 Parent, Little Genetic Variation D. Mutation
5. Not Identical Cells 2 Parents Much Genetic Variation E. Species
6. Identical genetic copies are known as F. CANCER
7. is a double stranded helix polymer of nucleotides that contains the genetic code of the individual. G. Restriction Enzyme
8. is the basic unit of DNA which is made of a Phosphate, a Sugar and a Base. H. Gene Splicing
9. is a single stranded polymer that is produced by DNA. I. Protein Synthesis
10. any alteration of the DNA sequence which changes the normal message carried by the gene. J. Inversion
11. DNA uses RNA to make a protein. This is termed K. Gene Expression
12. ONE BASE IS PUT IN THE PLACE OF ANOTHER L. DNA , NUCLEUS
13. A BASE IS LEFT OUT M. Clones
14. A BASE IS ADDED N. DNA
15. BASES ARE SWITCHED O. Genetic Engineering
16. An organism's environment can affect the way that some genes are expressed. P. Selective Breeding
17. technology that humans use to alter the genetic instructions in organisms Q. SEXUAL REPRODUCTION
18. cutting DNA and placing it into another organism R. HEREDITY

19. an enzyme that cuts DNA in specific places and is an essential tool in gene splicing as well as in Gel-electro phoresis S. Nucleotide
20. just like a bar code the more common the bars the more common heritage or ancestry T. DNA fingerprint
21. a process of picking parents with favorable traits to produce those traits in the offspring. U. Asexual reproduction
22. a group of closely related organisms that share certain characteristics and can produce offspring capable of reproduction. V. Deletion