Chapter 7 Concept Review

BIOLOGY

Directions: Answer the following questions using your notes and textbook

1. Two copies of each autosomal gene affect _________________.
2. Most human traits are result of _________________ genes.
3. Chance of having disorder can be ________________.
4. Some disorders caused by _________________ alleles on autosomes.
5. Must have _______ copies of recessive allele to have _________________.
6. Disorders often appear in offspring of parents who are _________________.
7. A person who is heterozygous for disease is called a ________________ - does not show disease symptoms.
8. Mendel figured out much about heredity, but did not know about _________________.
9. _________________ of genes on sex chromosomes differs from autosomal genes.
10. Genes located on sex-chromosomes called ______ - _________________ genes.
11. In mammals and some other animals, individuals with ___ ___ are female and ___ ___ are male.
12. Many ____________ are result from alleles with range of dominance, rather than a strict dominant and recessive relationship.
13. _________________ Dominance- Neither allele completely dominant.
14. _________________ - Both traits are expressed completely.
15. Human blood type is example of _________________. Also has 3 different alleles - trait also considered a _________________ - _________________ trait.
16. _________________ traits- two or more genes determine trait.
17. ___________ ____________ result of four genes that interact to produce range of colors.
18. Human traits also affected by _________________. (nutrition and health care).
19. Thomas Hunt ________________ worked with fruit flies (Drosophila melanogaster).
20. Some traits seemed to be ____________________ together. Morgan called them linked traits. (found on _____________ chromosome)

21. Meiosis ________________________ assorts chromosomes when gametes are made for sexual reproduction.

22. Both male and females can be carriers of ____________________ disorders.

23. Only __________________ can be carriers of sex-linked disorders.

24. Male who has gene for disorder on ____-chromosome will have disorder.

25. A ___________________ is a chart for tracing genes in a family.

26. Phenotypes are used to infer ____________________ on a pedigree.

27. Pedigrees used for studying genetics in ________________.

28. _____________________- picture of all chromosomes in a cell.

29. Stains used to produce _________________ or bands

30. Used to identify certain genetic disorders in which there are extra or too few _________________ (i.e. Down syndrome)