Ch 2: Genetics and Prenatal Development

1. Chromosomes are found in the __________________________ of the cell.

2. When a sperm and an egg unite it is called________________________

3. A fertilized cell starts off as (number) ___________________ cell.

4. ________________exists in every cell of our body.

5. __________ is the number of chromosomes are found in the nucleus of the human cell.

6. Chromosomes are made of long strand of _________________.

7. DNA are organized into segments called _________________.

8. Genes contain paired sequences of chemicals called _________________.
   what is the combination of the nucleotides ___________ + ___________
   ___________ + ___________

9. ________________ make up the instructions for the functioning and replication of the cells.

10. Sperm collected from the father and then injected into the mother’s reproductive system for fertilization is called__________________.

11. _______________________________ is when eggs and sperm are fertilized in a petri dish then placed in the mother’s uterus for further development.

12. During ________________ the cell copies its own chromosome.

13. During__________________ sperm and egg cells form.

14. The sex cell is called_______________________________.

15. ____________________________ twins grow from the same zygote.

16. ____________________________ twins form when two eggs are fertilized by two different sperm.

17. In order to be a female, one must have two ______________________ chromosomes.

18. In order to be a male, one must have ______________________ chromosomes.

19. List three methods in which parents can test for genetic abnormalities:

20. Two versions of a gene is called an _________________________.

21. A dominant allele is represented by __________________________.

22. A recessive allele is represented by __________________________.

Punnett Square
Dominant Gene Disease
(Huntington Disease) – damage to brain and nervous system

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Recessive Gene Disease
(Cystic Fibrosis) - respiratory problems and lung infections

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