**GENETICS TEST REVIEW**

**Define or state the significance of the following terms:**

1. Gregor Mendel 18. Law of independent Assortment
2. heredity 19. phenotype
3. traits 20. genotype
4. genetics 21. homozygous
5. gametes 22. heterozygous
6. fertilization 23. dihybrid cross
7. zygote 24. Punnett square
8. pollination 25. product rule
9. hybrids 26. diploid
10. F1 27. haploid
11. F2 28. homologous chromosomes
12. alleles 29. nondisjunction
13. dominant 30. pedigree
14. recessive 31. carrier
15. Law of Segregation 32. incomplete dominance
16. Incomplete dominance 33. autosomes
17. codominance

34. Explain the difference between multiple alleles and polygenic inheritance. Give an example of each,

35. What do the 23 pair of chromosomes consist of for males and females?

36. How can external environmental factors affect gene expression. Explain.

37. How can internal environmental factors affect gene expression. Explain.

38. What is the difference between cross-pollination and fertilization?

39. What is a test cross and what is its purpose?

40. Construct a chart illustrating the ABO blood typing system. Include the following information:

 a. blood type

 b. antigens present

 c. antibodies produced

 d. can receive from

 e. can donate to

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