Quizlet

18 Multiple choice questions

- 1. all the genes present in the cells of an organism
 - a. phenotype
 - b. genetics
 - c. gene
 - d. CORRECT: genotype
- 2. alternative forms of a gene
 - a. gene
 - b. genetics
 - c. hybrid
 - d. **CORRECT:** alleles
- 3. the offspring of individuals that are pure-breeding for different alleles of a particular gene
 - a. CORRECT: monohybrid
 - b. genotype
 - c. hybrid
 - d. homozygous
- 4. homozygous
 - a. CORRECT: pure-breeding
 - b. segregate
 - c. hybrid
 - d. genetics
- 5. a universally accepted scientific format to represent the inheritance of a particular genetic trait over a number of generations
 - a. segregate
 - b. pedigree analysis
 - c. pure-breeding
 - d. CORRECT: pedigree chart

- the detectable physical, chemical or behavioural characteristics or traits of an organism a. gene b. CORRECT: phenotype c. genetics d. genotype the study of a pedigree chart in a group of related individuals to determine the pattern and characteristics of inheritance of a genetic trait a. segregate b. pedigree chart c. CORRECT: pedigree analysis d. dominant allele thread-like structures made of DNA, observed in dividing cells a. homozygous b. genotype c. CORRECT: chromosomes d. phenotype the study of heredity and variation in biological systems a. gene b. genotype c. CORRECT: genetics d. phenotype
- 10. the form of a gene which is expressed in the heterozygous (hybrid) condition, masking the other (recessive) form of the same gene
 - a. phenotype
 - b. alleles
 - c. CORRECT: dominant allele
 - d. recessive allele

- 11. the form of a gene which is only expressed in the homozygous condition, and is masked in the heterozygous condition by another (dominant) form of the same genea. allelesb. segregate
 - d. dominant allele

c. CORRECT: recessive allele

- 12. the offspring from the cross-breeding of two distinct races, breeds, varieties, species or genera
 - a. monohybrid
 - b. alleles
 - c. CORRECT: hybrid
 - d. gene
- 13. physical, or physiological or behavioural difference between individuals in a population which may or may not make them more suited to prevailing environmental conditions
 - a. genotype
 - b. **CORRECT:** variation
 - c. genetics
 - d. alleles
- 14. separate (as in individual chromosomes that segregate from each homologous pair during meiosis)
 - a. gene
 - b. genetics
 - c. genotype
 - d. CORRECT: segregate
- 15. the set of principles derived by Gregor Mendel relating to the transmission of hereditary characteristics from parent organisms to their children
 - a. segregate
 - b. recessive allele
 - c. CORRECT: Mendel's laws
 - d. genetics

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- 16. the smallest physical unit of heredity
 - a. genotype
 - b. alleles
 - c. CORRECT: gene
 - d. genetics
- 17. having two different alleles of a particular gene in a diploid cell for any particular hereditary characteristic
 - a. homozygous
 - b. **CORRECT:** heterozygous
 - c. chromosomes
 - d. segregate
- 18. having identical alleles of a particular gene in a diploid cell for any particular hereditary characteristic
 - a. CORRECT: homozygous
 - b. heterozygous
 - c. chromosomes
 - d. monohybrid