

Multiple Choice Questions

1. An organism's expressed physical trait, such as seed colour or pod shape, is called its;

- A. Genotype
- B. Phenotype
- C. karyotype
- D. Physical type

2. An organism has two different alleles for a single trait. Its genotype is said to be;

- A. fmozygous
- B. Heterozygous
- C. mizygous
- D. Homologous

3. In the cross-pollination between a true-breeding yellow pod plant and a true-breeding green plant, where green pod colour is dominant, the resulting offsprings (F1 generation) will be:

- A. 1/4 green; 3/4 yellow
- B. All yellow
- C. 1/4 yellow 3/4 green
- D. All green

4. How many genetically different kinds of gametes an individual with genotype AAbb can produce?

- A. 1
- B. 2
- C. 4
- D. 5

5. Which of the following statements regarding genes is FALSE?

- A. Genes are located on chromosomes
- B. Genes consist of a long sequence of DNA
- C. A gene contains information for the production of a protein
- D. Each cell contains a single cop, of every gene

6. Mendel's primary contribution to our understanding of inheritance was;

- A. The idea that genes are found on chromosomes
- B. Explanation of the patterns of inheritance
- C. The discovery of alleles
- D. Determining that informations contained in DNA are for protein synthesis

7. A purple-flowered pea plant has the genotype PP. Which of the following statements about this plant is FALSE?

- A. Its phenotype will be white flowers
- B. It has a homozygous dominant genotype
- C. When bred to a white flowered plant, all offspring will be purple flowered
- D. All the gametes produced will have the same flower colour allele

8. Charles Darwin proposed that organisms produce many more offspring than can possible survive on the limited amount of resources available to them. According to the Darwin, the offspring that are most likely to survive are those that;

- A. Are born first and grow fastest
- B. Are largest and most aggressive
- C. Have no natural predictors

D. Are best adapted to the environment.

Answers

1. B	2. B	3. D	4. B	5. D
6. B	7. S	8. D		

ClassNotes

