

Biology - 10th Class Biology English Medium Chapter 15 Preparation

Q1. What is linkage?

Ans 1: The phenomenon of staying together of all the genes of a chromosome is called linkage.

Q2. Why more genes are found on X-chromosomes than Y-chromosomes ?

Ans 1: X-being larger has more number of genes while Y-being smaller has small number of genes

Q3. What is karyotype?

Ans 1: the entire chromosomes complement of an individual or cell is called karyotype.

Q4. What is test cross?

Ans 1: It is a matching in which an individual showing a dominant phenotype is crossed with an individual showing its recessive phenotype.

Q5. What are multiple alleles ?

Ans 1: More than two alternative form of a gene are called multiple alleles

Q6. What are autosomes ?

Ans 1: Autosomes do not carry any sex determining gene . All chromosomes other than sex chromosomes are called autosomes . The genes on autosomes determines autosomal traits

Q7. Pick up the homozygotes from the following
TT, tt , Tt ,Rr ,Yr

Ans 1: TT ,tt

Q8. State the law of Segregation?

Ans 1: The two coexisting alleles of an individual for each trait segregate during gamete formation so that each gamete gets only one of the two alleles. This is called Mendel's law of segregation.

Q9. What is test cross ?

Ans 1: It is a matching in which an individual showing a dominant phenotype is crossed with an individual showing its recessive phenotype

Q10. What are genes ? What is meant by biological inheritance ?

Ans 1: Genes are the units of inheritance because these determine inherited character . The terms hereditary and inheritance are more or less synonymous . Biological inheritance is the passage of traits determined by genes from one generation to the next
