

Science Worksheet

Heredity Class X

Q1. Define the following:

- a. Genetics b. Genes c. Mutation. d. Genetic drift.

Q2. Fill in the blanks:

- a. _____% genes a child receives from his father.
b. Archaeopteryx was a link between _____
c. A vestigial organ of man is _____
d. Characters (trait) are controlled by _____ which present on _____
e. Variations occur more frequently in _____.

Q3. Short answer type question:

- a. What is speciation?
b. Who is known as 'Father of Genetics'?
c. Define heredity.
d. Which decides the sex of the child, sperm or ova?
e. What are the acquire traits?

Q4. Differentiate between

- a. Connecting link and vestigial organs
b. Inherited and acquired traits
c. Homologous and analogous organ

Q5. What were the results of Mendel's monohybrid cross?

Q6. How reproductive isolation is must for speciation?

Q7. Write the basic features of mechanism of inheritance.

Q8. Explain with the help of a figure that father is responsible for the sex of a child.

Q9. 'Gene control traits' explain this statement with an example.

Q10. How does natural selection differ from genetic drift?