



ST. LAWRENCE HIGH SCHOOL



A JESUIT CHRISTIAN MINORITY INSTITUTION

Sub: Life Science

Class: X

Date: 14.11.2020

CHAPTER: HEREDITY & COMMON GENETIC DISORDERS

TOPIC: DIHYBRID CROSS

WORKSHEET SOLUTION 44

Choose the correct option:

(1X15=15)

- Which of the following will be pure breeding for only one character?
b. YY Rr
- In a dihybrid cross, what fraction of the progeny is heterozygous at both the alleles?
b. 4/16
- What fraction of the progeny will have yellow, wrinkled seeds in a dihybrid cross?
c. 3/16
- What is the genotype of pea plant heterozygous for round seed and homozygous recessive for seed colour?
b. Rryy
- Genes do not occur in pairs in
c. Gametes
- A genetic hybrid has two different _____ of the same gene.
a. locus
- In Guineapig, _____ coat colour is dominant over white
a. Black
- What will be the genotype of a hybrid black Guineapig of F₂ generation?
c. Bb
- Genes present in cytoplasm follows _____ inheritance.
b. Maternal
- The genotype of short haired Guineapig is
a. SS
- The F₂ generation of crosses between Guineapig gives rise to when F₁ hybrids are interbreed
d. 4
- How many types of gametes are produced from an organism having genotype BbRr?
c. 4
- The ratio of the number of gametes formed by a dihybrid of F₁ generation is
d. 1:1:1:1
- The Dihybrid cross of Mendel inferred the concept of
d. Independent assortment
- How many different genotypes are found to be formed in the F₂ generation of a dihybrid cross?
b. 9

-Debjani Chakraborty