



ST. LAWRENCE HIGH SCHOOL



A JESUIT CHRISTIAN MINORITY INSTITUTION

Sub: Life Science

Class: X

Date: 09.11.2020

CHAPTER: HEREDITY & COMMON GENETIC DISORDER **TOPIC: MENDEL'S WORK ON PEA PLANT**
PART 2

WORKSHEET SOLUTION 43

Choose the correct option:

(1X15=15)

- How many combination of offsprings are possible in the F₂ generation in monohybrid cross?
b. 3
- How many factors are obtained by a diploid offspring from each of the parents?
a. 1
- The F₂ ratio of a dihybrid cross is
c. 9:3:3:1
- Which of the following is the external manifestation of a character?
b. Phenotype
- The vertical column of the Punnett square consists of
b. Female gamete
- Punnett square represents _____ fertilization events.
a. Random
- Each dihybrid of the F₁ generation can make gametes like
c. Both a&b
- How many yellow round seeded pea plants did Mendel found in F₂ generation of dihybrid cross?
b. 315
- The genotype of the green wrinkled seeded pea plants is
c. yyrr
- In dihybrid cross of Mendel, the number of the different genotypes are
b. 9
- Which phenomenon is mainly evident from Mendel's Dihybrid cross?
b. Independent assortment
- A gene is a stretch of DNA responsible for formation of _____.
b. Protein
- The second set of parents are crossed in _____ generation
a. F₁
- Which of the following is the homozygous condition?
c. Both a&b
- Which generation is usually represented by Punnett square?
c. F₂

-Debjani Chakraborty