



ST. LAWRENCE HIGH SCHOOL



A JESUIT CHRISTIAN MINORITY INSTITUTION

Sub: Life Science

Class: X

Date: 19.06.2020

CHAPTER: HEREDITY & COMMON GENETIC DISEASES

TOPIC: TERMS RELATED TO
HEREDITY PART 2

WORKSHEET SOLUTION 41

Choose the correct option:

(1X15=15)

1. Which type of genetic constitution does pure line organisms have?
a. Homozygous
2. Hybrids are formed by the mating between parents who are genetically
b. Dissimilar
3. The genotypic ratio of monohybrid cross performed with the height as one of the characters is?
c. 1:2:1
4. When a pure breed tall pea plant is crossed with that of a dwarf plant, which of the following indicates a tall plant?
d. Both a&b
5. Selfing of hybrid tall (Tt) pea plants leads to generation of
c. 75% tall plants
6. Phenotypic expression changes on
a. variation in protein expression
7. Which of the following denotes the parental generation with respect to the F₂ generation in a cross?
b. P₁
8. Atleast how many copies of the brown allele is required for a person to have brown eyes?
a. One
9. Which of the following copies of recessive allele(s) can produce dominant phenotype?
a. One
10. How many Brown eyed offsprings will be produced to a brown eyed (BB) Father & blue eyed mother?
d. Four
11. Which of the following genotypes will indicate tallness in pea plants?
c. Both a&b
12. Which of the following is Phenotype related to?
c. both a&b
13. Which of the following is true?
a. Genotype leads to phenotype
14. A hybrid tall pea plant contains
b. a dominant allele
15. What will be the % of formation of Tt progeny when a pure tall & pure dwarf pea plant is crossed?
c. 100%

-Debjani Chakraborty