



# ST. LAWRENCE HIGH SCHOOL



A JESUIT CHRISTIAN MINORITY INSTITUTION

Sub: Life Science

Class: X

Date: 16.11.2020

CHAPTER: HEREDITY & COMMON GENETIC DISORDERS

TOPIC: HEREDITY

WORKSHEET SOLUTION 45

**Choose the correct option:**

**(1X15=15)**

1. A cross between a tall plant (TT) and short plant (tt) resulted in progeny that were all tall plants as:  
**a. Tallness is the dominant trait**
2. If a pure tall pea plant is crossed with a pure short plant. The ratio of pure tall plants to pure short plants in F<sub>2</sub> generation will be:  
**c. 1: 1**
3. Which of the following indicates a trait?  
**b. Free ear lobe**
4. Who rediscovered Mendel's work?  
**c. Both a&b**
5. The ultimate source of all genetic variation is  
**a. Mutation**
6. Mutation can affect  
**c. Both a&b**
7. The locus of red & white eye colour in *Drosophila* is present on  
**b. X chromosome**
8. Which of the following gives information for protein?  
**a. Gene**
9. Which of the following is the most important work of Mendel?  
**c. Laws of Inheritance**
10. The hereditary information is present in the \_\_\_\_\_ of parents.  
**c. Both a&b**
11. The rule of \_\_\_\_\_ determines the process by which traits and characteristics are reliably inherited.  
**a. Heredity**
12. Which of the following is not possible according to Mendel's experiment?  
**d. 4 tall & 1 medium height**
13. An organism with RRYy genotype will produce \_\_\_\_\_ type of gametes.  
**b. 1**
14. The locus of which of the following is same?  
**d. Both 1&2**
15. The genotype of a yellow round seed containing pea plant is  
**d. All of these**

-Debjani Chakraborty