

## **ST. LAWRENCE HIGH SCHOOL**



## A JESUIT CHRISTIAN MINORITY INSTITUTION

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Sub: Life Science	C	lass: X	Date: 16.11.2020
CHAPTER: HEREDITY & COMMON GENETIC DISORDERS TOPIC: HEREDITY			
WORKSHEET 45			
Choose the correct option: (1X15=15)			
<ol> <li>A cross between a tall plant (TT) and short plant (tt) resulted in progeny that were all tall plants as:</li> <li>a. Tallness is the dominant trait</li> <li>b. Shortness is the dominant trait</li> </ol>			
c. Tallness is the recessive trait d. None of the			
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 $F_2$ generation will be:			
a. 1: 3	b. 3: 1	c. 1: 1	d. 2: 1
3. Which of the follow		01 11 1	0.2.2
a. Height	b. Free ear lobe	c. eye colour	d. None of these
4. Who rediscovered N	/lendel's work?		
a. Correns	b. Hugo DeVries	c. Both a&b	d. None of these
5. The ultimate source of all genetic variation is			
a. Mutation	b. Heredity	c. Variation	d.None of these
6. Mutation can affect			
a. Single base pair	b. Segment of chromos	some c. Both a&b	d. None of these
7. The locus of red & white eye colour in <i>Drosophila</i> is present on			
a. Y chromosome	b. X chromosome	c. Z chromosome	d. Both 1&2
8. Which of the following gives information for protein?			
a. Gene	b. Nucleus	c. Locus	d. Character
9. Which of the following is the most important work of Mendel?			
a. Origin of Species	0 /	c. Laws of Inheritance	d. Cell theory
10. The hereditary information is present in the of parents.			
a. Sex cells	b. Gametes	c. Both a&b	d. None of these
11. The rule ofdetermines the process by which traits and characteristics are reliably			
inherited.			
a. Heredity	b. Reproduction	c. Generation	d. None of these
12. Which of the following is not possible according to Mendel's experiment?			
a. 3tall 1 short	b. 24 tall 8 short	c. 8 tall 0 short	d. 4 tall &1 medium height
13. An organism with RRYY genotype will produce type of gametes.			
a. 2	b. 1	c. 3	d. 8
14. The locus of which of the following is same?			
а. Т	b. t	c. R	d. Both 1&2
15. The genotype of a yellow round seed containing pea plant is			
a. RRYY	b. RrYy	c. RrYY	d. All of these

-Debjani Chakraborty