

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 44 VORKSHEET 44			
Choose the correct op	otion:		(1X15=15)
1. Which of the following will be pure breeding for only one character?			
a. Yy Rr	b. YY Rr	c. YY RR	d. yy rr
2. In a dihybrid cross, what fraction of the progeny is heterozygous at both the alleles?			
a. 1/16	b. 4/16	c. 7/16	d. 9/16
3. What fraction of the progeny will have yellow, wrinkled seeds in a dihybrid cross?			
a. 9/16	b. 1/16	c.3/16	d. 16/16
4. What is the genotype of pea plant heterozygous for round seed and homozygous recessive for			
seed colour?			
a. RRyy	b. Rryy	c. RrYy	d. R
5. Genes do not occur	in pairs in		
a. Endosperm cells	b. Zygote	c. Gametes	d. Somatic cell
6. A genetic hybrid has two different of the same gene.			
a. locus	b. number	c. types	d. alleles
7. In Guineapig, coat colour is dominant over white			
a. Black	b. Grey	c. Brown	d. Both a &b
8. What will be the genotype of a hybrid black Guineapig of F2 generation?			
a. BB	b. Br	c. Bb	d. bb
9. Genes present in cytoplasm follows inheritance.			
a. Mendelian	b. Maternal	c. Both a&b	d. None of these
10. The genotype of short haired Guineapig is			
a. SS	b. ss	c. Ss	d. hh
11. The F2 generation of crosses between Guineapig gives rise to when F1 hybrids are interbreed			
a. 2	b.6	c.3	d.4
12. How many types of gametes are produced from an organism having genotype BbRr?			
a. 2	b.3	c. 4	d.None of these
13. The ratio of the number of gametes formed by a dihybrid of F1 generation is			
a. 1:2:1	b.3:1	c. 1:2:2:1	d. 1:1:1:1
14. The Dihybrid cross of Mendel inferred the concept of			
a. Selfing	b. Unit factors	c. Segregation d.	Independent assortment
15. How many different genotypes are found to be formed in the F2 generation of a dihybrid cross?			
a. 16	b. 9	c. 4	d. 10

-Debjani Chakraborty