

Alleles

Monohybrid

Genes

1. \_\_\_\_\_ are units of Inheritance. **Homozygous**

2. \_\_\_\_\_ are slightly different forms of same gene.

3. TT and tt are identical genes, so they are called \_\_\_\_\_ alleles.

4. Cross between plants that differ in one

Test cross

character is called \_\_\_\_\_ cross.

Punnett square

5. \_\_\_\_\_ is a graphical representation to calculate probability of offspring genotypes in a genetic cross. **Phenyl alanine hydroxylase**

6. \_\_\_\_\_ is the cross between a plant with dominant phenotype and a recessive plant. It is used to find out the genotype of the dominant plant (test organism).

7. The disease phenylketonuria is caused due to mutation of a gene that codes for \_\_\_\_\_.

**Haemophilia**

**GUG**

8. \_\_\_\_\_ is a sex linked recessive disorder.

9. The substitution of amino acid in the globin chain is due to single base substitution at the sixth codon of the beta globin gene from GAG to \_\_\_\_\_, that causes sickle cell anaemia.

10.  $\alpha$  Thalassemia is due to mutation of any of the 4 genes present on chromosome number \_\_\_\_\_, whereas  $\beta$  Thalassemia is caused due to mutation of any of the two genes present of chromosome number \_\_\_\_\_.

16

11