

~~Genes~~ and Sex Linked inheritance
genes are present on chromosome. The point where genes are situated is called locus. Many genes present in a group on chromosome is called linkage group. The genes present in this group is not separated during the crossing over. Hence it is called Linkage and this type of gene is called linked gene.

T. H. Morgan -
Study briefly about linkage in Drosophila. They discovered four linkage groups in Drosophila. Morgan is also called -
father of Drosophila genetics. Crossing over depends between the distance of two genes on chromosome. Maximum distance related to maximum probability of crossing and minimum distance related to minimum chance of crossing over.

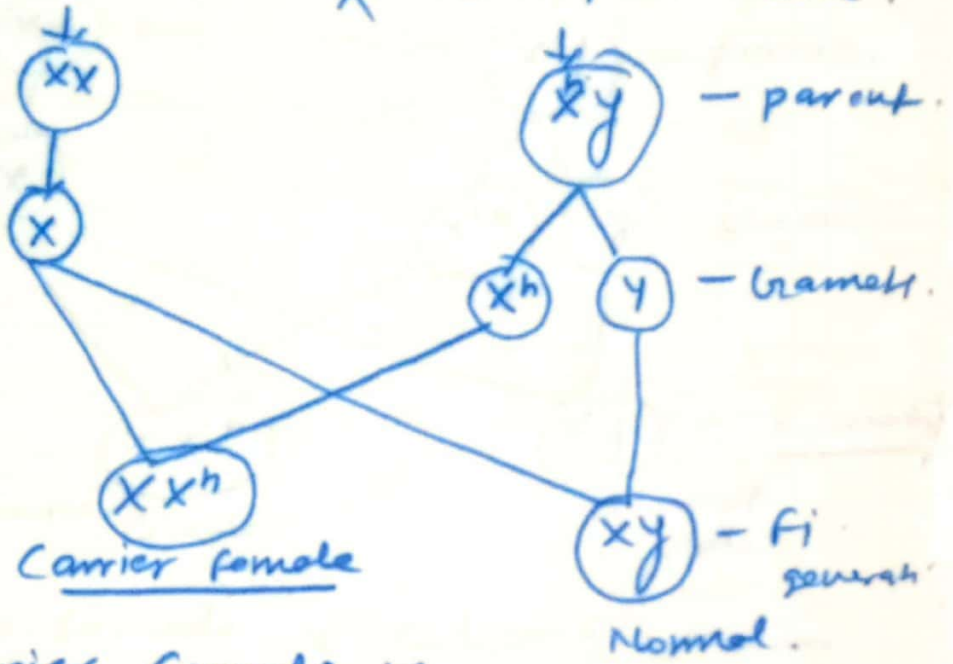
$\alpha \text{-----} \alpha$
① 18/08/2020 Sex Linked inheritance

* Inheritance of character taken through the sex linked gene is called sex-linked inheritance. This type of gene is present on sex chromosome and responsible for determination of that character which is transferred from parents to children from one generation to other generation.

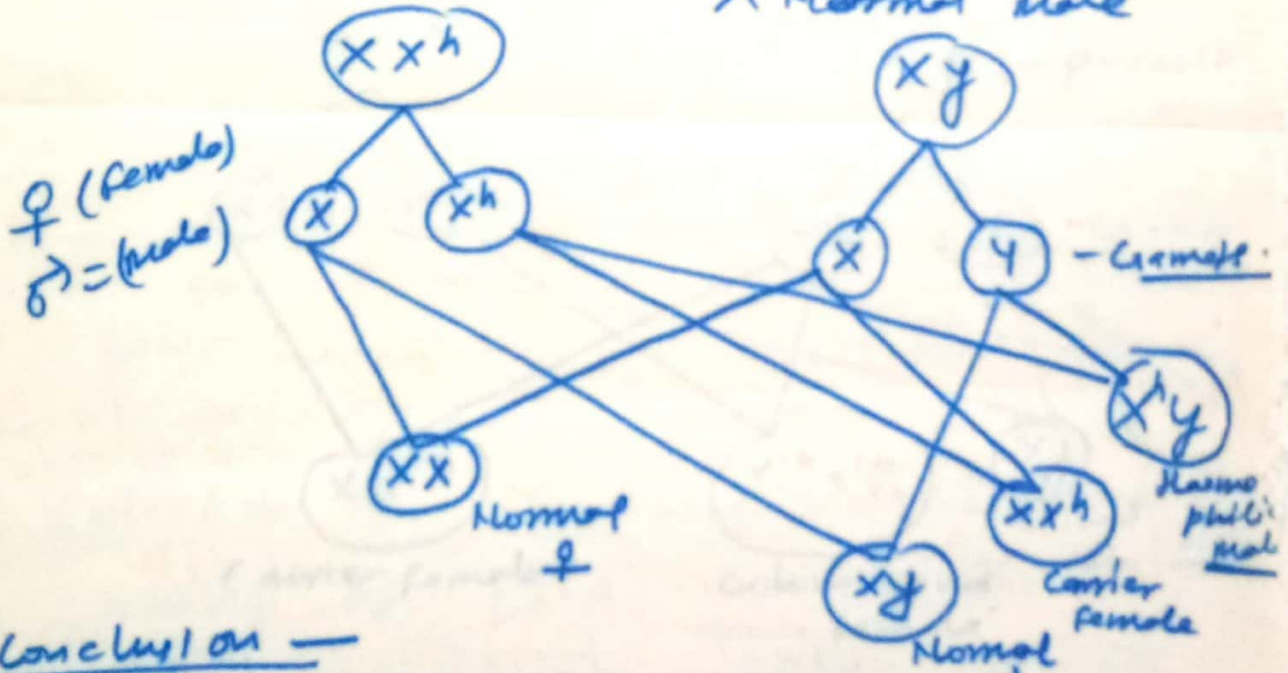
Ex - * Haemophilic disease
* colour blindness.
* muscle.

Ⓐ Haemophilia disease :- (Royal disease)

ⓐ Normal female X Haemophilic male.



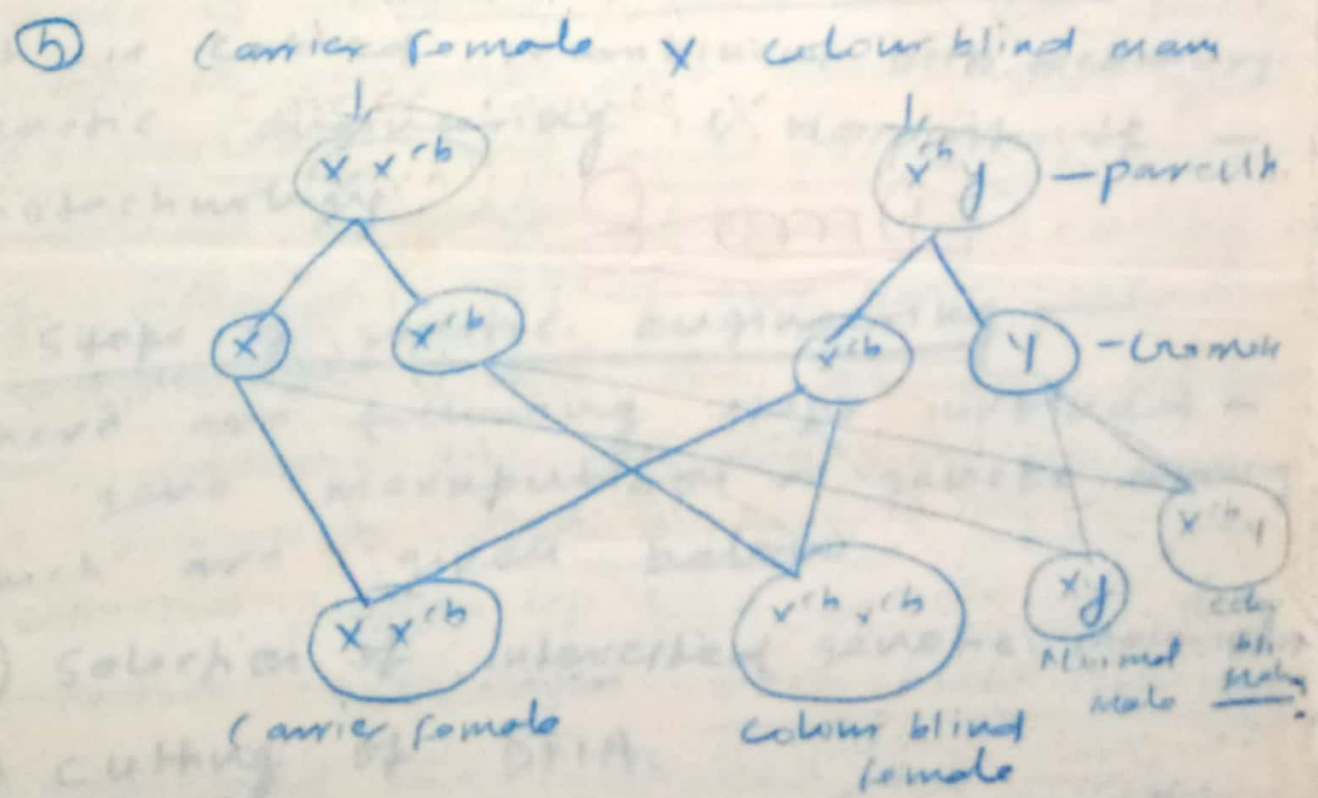
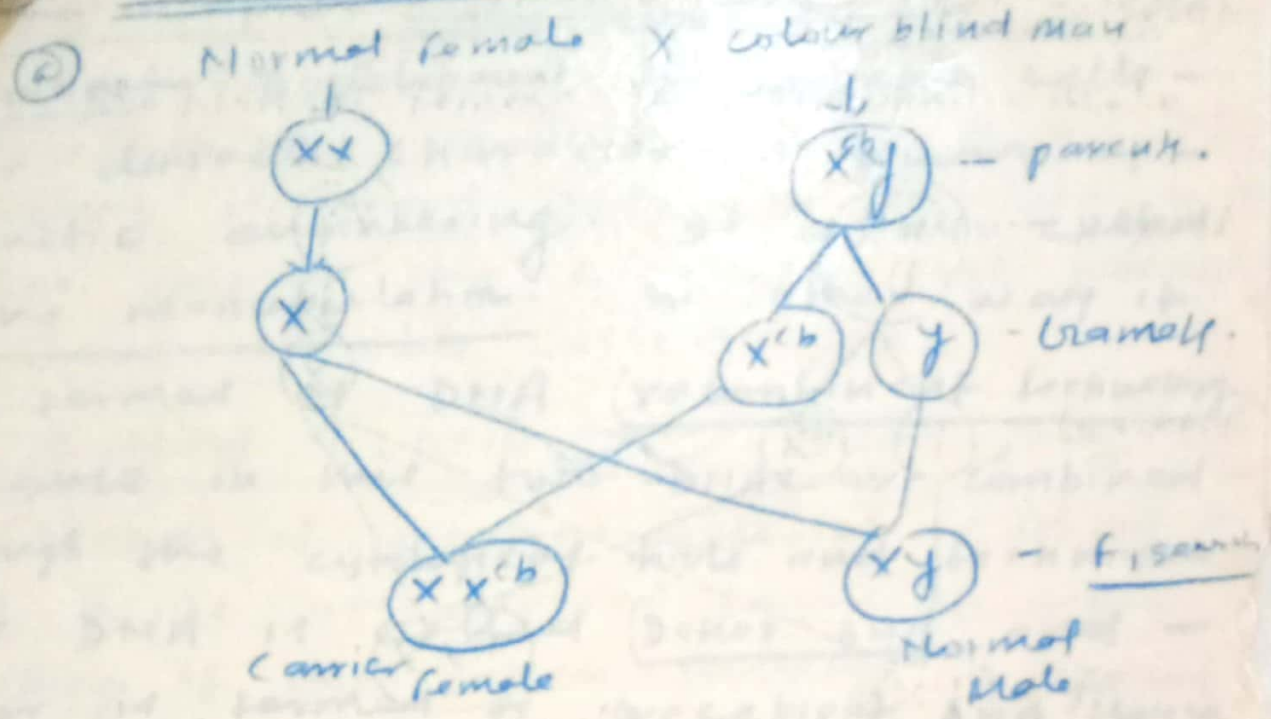
ⓑ carrier female X Normal male



Ⓚ Conclusion -

- Ⓘ 50% male child will be Normal.
- Ⓛ 50% male child will be haemophilic.
- Ⓜ 50% female child is Normal.
- Ⓨ 50% female child is carrier.

③ Colour blindness —



Conclusion —

② 50% male is Normal and 50% is colour blind.

④ 50% female is carrier and 50% is colour blind