Sl.No	CHROMOSOMAL DISORDERS	KARYOTYPE
1.	Down's Syndrome	XXY, 47 chromosomes
2.	Klinefelter's syndrome	Trisomy of Chromosome No- 21, 47 chromosomes
3.	Turner's syndrome	XO, 45 chromosomes
SL.NO	MENDELIAN/GENE DISORDERS	CAUSE
4.	Phenylketonuria	Mutation in sex linked recessive genes causing reduction in proteins needed for blood clotting.
5.	Colour Blindness	Mutation in autosome linked recessive genes causing substitution of Glutamic acid to valine in the beta globin chain of haemoglobin that results in R.B.C turning sickle shaped, because of poor quality haemoglobin.
6.	Thalassemia	Mutation in autosome linked recessive gene that codes for phenylalanine hydroxylase enzyme
7.	Sickle cell anaemia	Mutation in Sex linked recessive genes, causing defect in red and green cones of eye
8.	Haemophilia	Mutation in autosome linked recessive genes causing reduction in the number of haemoglobin chains