

## Chromosomal Basis of Inheritance:

After class students:

1. Discriminate between gene and allele.
2. Discriminate between homozygote and heterozygote.
3. Discriminate between genotype and phenotype.
4. Know and understand the Law of Independent Assortment and Law of Segregation.
5. Predict the allele composition of offspring from a cross between individuals of known genetic makeup.
6. Define chromatin, chromosome. State the number of chromosomes of healthy individuals found in somatic and germ cells.
7. Define karyotype. Denote human karyotype.
8. Know the genetic determination of: Turner's Syndrome, Klinefelter's Syndrome, Patau's Syndrome, Edwards' Syndrome, Down Syndrome, XXY Syndrome, XYY Syndrome.