

**UNIT – 18 - GENETICS**

**2/3 MARKS:**

1. What is genetics?
2. Define the terms Homozygous, Heterozygous.
3. What are alleles and allelomorphs?
4. **State the law of dominance.**
5. **State the law of Segregation.**
6. **State the law of Independent assortment.**
7. What is telomere?
8. **What is sat-chromosome?**
9. What are autosomes and allosomes?
10. **What is Karyotype and Idiogram?**
11. Significances of DNA.
12. **Define Mutation.**
13. What are aneuploids?
14. What is Down's syndrome?

**5 MARKS:**

1. What are the reasons for Mendel's success?
2. **Explain Monohybrid cross.**
3. **Explain Dihybrid cross.**
4. Describe the structure of chromosome.
5. **Types of chromosomes based on the position of centromere.**
6. **Describe the structure of DNA.**
7. Describe the replication of DNA.
8. **How is sex determined in Man?**
9. Give an account of Mutation.

