

## CLASS XII BIOLOGY

1. Describe the technique by which genetic disorder in a developing foetus can be detected.
2. Mention any four characteristics that an ideal contraceptive should have.
3. How do copper and hormones releasing IUDs act as contraceptives?
4. Differentiate between back cross and test cross.
5. Explain pleiotropy with an example.
6. Explain the mechanism of sex determination in insects like *Drosophila* and grasshopper.
7. A color blind man marries a woman with normal vision whose father is color blind. Work out a cross to show the genotype of the couple and their respective sons.
8. Why is it that the father never passes on the gene for haemophilia? Explain
9. What are "true breeding lines" that are used to study inheritance pattern of traits in plants?
10. Why did Mendel choose garden pea for his experiment?
11. How are dominance, co-dominance and incomplete dominance patterns of inheritances different from each other?
12. Explain the process of fertilization in human female, and trace the post-fertilization events in a sequential order up to implantation of the embryo.
13. Describe the role of hormones in productions of Gametes in humans.
14. Where are fimbriae present in a human female reproductive system? Give their function.
15. Give the site and functions of Sertoli Cell and Leydig Cell in humans.
16. Draw diagram of sperm, mature ovum and Ovary of human.