



**I. Answer any 10 of the following questions:**

**[10 x 2 = 20]**

1. Define Linkage, Coupling and repulsion.
2. What is Synteny?
3. What are the differences between Linkage and Cross over?
4. What is crossing over?
5. What are co-mutagens?
6. What is translocation or illegitimate cross over?
7. What is Amniocentesis?
8. What is PCPNDT act?
9. What is POCSO act?
10. What is Mayer-Rokitansky syndrome?
11. What is Foetoscope?
12. What is IUDs?

**II. Answer any 6 of the following questions:**

**[6 x 5 = 30]**

1. Salient features of chromosomal theory of inheritance by Sutton and Boveri.
2. Write a short note on mutagens.
3. What is gene mapping or genetic mapping? Write its uses.
4. Mention the significances of ploidy.
5. Give an account of Gene Mutation.
6. What are major tasks of RCH?
7. Give an account of sexually transmitted disease.
8. Give an account of ART.

-----ALL THE BEST-----

Test should be written under the supervision of your parents and get the answer paper signed from them.

No corrections should be made after the test timings. We expect your honesty.

Test Papers have to be submitted after the completion of all the 4 tests.

Submission Date of Test Papers: 1<sup>st</sup> August, 2<sup>nd</sup> August, 3<sup>rd</sup> August

Timings: 9 AM – 12.30 PM / 5 PM- 7 PM