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B.Sc (Final Year)

- Q1. Who studied transposable elements for the first time?
- Ans. Barbara McClintock
- Q2. Which special protein is encoded by transpoase?
- Ans. Transposase
- Q3. Give two examples of cut and paste transposons?
- Ans. IS elements and P elements
- Q4. Hobo- elements are present in which organism?

Ans. Drosphilla

- Q5. Which mechanism of transposition is followed by Tn 3-elements?
- Ans. Replicative Transposition
- Q6. Give an example of retrovirus like elements
- Ans Copia elements in Drosphilla
- Q7. What is the name given to those transposable elements which contain a non mobile DNA sequence flanked by IS elements?
- Ans. Transposon element/composite transposon
- Q8. Give two examples of transposon present in maize.
- Ans. Spm dt elements
- Q9. Which disorder is produced due to high rate transposition of P element in Drosophilla?
- Ans. Hybrid dysgenesis
- Q10. Give a prominent example of SINEs
- Ans. Alu sequences
- Q11. Give a prominent examples of LINEs
- Ans: LI Sequences

- Q12. From where are the clones derived during chromosomes walking?
- Ans. Genomic library
- Q13. What are the main types of genome maps?
- Ans. Genetic, Cytogenetic and physical maps
- Q14. Which type of genome maps are most accurate
- Ans. Physical maps
- Q15. Which type of enzymes are used for preparation of restriction maps
- Ans. Centimorgan (CM)
- Q16. Give names of two molecular markers?
- Ans. Minisatellites and Microsatellites
- Q17. What is the unit of distance in a physical map?
- Ans. Base pairs (bp)
- Q18. Which type of enzymes are used for preparation of restriction maps?
- Ans. Restriction Endonucleases
- Q19. What do you mean by PFGE?
- Ans. Pulse field gel Electrophoresis
- Q20. What is the term given to labeled DNA or RNA molecules which are used to identify the target genes?
- Ans. Probwa/ Molecular probes