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FACULTY OF ENGINEERING & TECHNOLOGY DEPARTMENT OF BIOTECHNOLOGY

- 3.This mixture is kept in a PCR equipment and is subjected to repeated cycles of DNA denaturation-renaturation-DNA replication.
- 4.During this process, the decaoligonucleotide will pair with the homologous sequence present at different locations in the DNA.
- 5.DNA replication extend the decaoligonucleotide and copy the sequence continuous with the sequence with which the selected oligonucleotide has paired.

- 6.The repeated cycles of denaturation-renaturation-DNA replication will amplify this sequence of DNA.
- 7.Amplification will takes place only of those regions of the genome that has the sequence complementary to the decaoligonucleotide at their both ends.

• 8. After several cycles of amplification the DNA is subjected to gel electrophoresis.

Initial denaturation at 94°C for 10 min.

Denaturation at 94°C for 1 min. Annealing at 37-45°C for 1 min. Extension at 72°C for 1 min. Final extension at 72°C for 10 min. Cooling at 4°C.

• 9.The amplified DNA will form a distinct band. it is detected by ethidium bromide staining and visible fluorescence's under U.V. light













