

# BACHELOR OF SCIENCE IN BIOTECHNOLOGY

## SEMESTER – III

Laboratory Course-VI

Paper Code: BTP-306

**BTP306: Laboratory course- VI: Molecular Biology (Max. marks 80+20=100)**

1. DNA isolation

- from plant cell (leaf of cabbage / mustard),
- animal cell (goat/rat liver)
- Human Blood & Microbes

2. Handling of DNA, RNA, cDNA, restriction enzymes

3. Plasmid DNA isolation

4. DNA analysis on gel electrophoresis

5. Gel documentation.

6. Blood Grouping.

7. Differential counting of W.B.C.

8. WIDAL test and VDRL test

9. ELISA Demonstration.

10. Purification of Antigen

11. Purification of Antibodies .

*Teachers will supply printed detailed instructions, procedure of the experiments.*

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