

Topic: Tissue Culture

B.Sc. Botany Hons. II

Paper: IV Group: B

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Tissue Culture and its Types

In protoplast culture, a number of phases can be observed.

These include:

- Development of a cell wall
- Cell division
- Continuous growth or regeneration to a whole plant

For plants, some of the special requirements include:

- Less amounts of iron and zinc and no ammonium

- Higher concentration of calcium
- High auxin/kinetic ratio for cell division and high kinetin/auxin ratio for regeneration
- Glucose and vitamins

Some of the other types of tissue culture include:

- Single cell culture
- Suspension culture
- Anther culture
- Pollen culture
- Somatic Embryogenesis