

DEPARTMENT OF BOTANY

D.B. COLLEGE JAY NAGIR

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Lecture No. 04

PAPER - I

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B.Sc. PART I (H)

CORE CONCEPT OF

Group - A, Algae

General Account: IV

The diploid phase e.g.

*Volvox*, *Spirogyra*, etc.

2. Diplontic — The vegetative phase (dominant phase) is diploid and haploid phase is limited to the gametes e.g. *Fucus*, *Sargassum*, etc.

3. Diplohaplontic — There is an alternation of two distinct vegetative phases. One is represented by diploid gametophytes and other by diploid sporophytic phase. It is of two types —

(a) Isomorphic — The sporophytic and the gametophytic phases are morphologically dissimilar e.g. *Laminaria*, *Chlorella*.

(b) Heteromorphic — The sporophytic and the gametophytic phases are morphologically dissimilar e.g. *Laminaria*.

4. Haplontic — Alternation of

Two successive diploid vegetative phase with a diploid phase of short duration represented by the zygote. e.g. *Batra-chospermum*.

5. Diplobontic — Alternation of two successive diploid vegetative phases with a diploid phase of short duration represented by the zygote. Haploid vegetative phase e.g. *Polysiphonia*.