

Dr. Rachana Shaline

Deptt. of Botany

Class : Deg-I (Hons.)

Paper : I (Group-'A')

Topic : Salient features of Fucus

Lecture No. - 47

Date - 14/08/2020

Salient features of Fucus :

- Fucus is a widely distributed marine alga.
- The increase in size and complexity of structure resulting in the differentiation of tissue.
- The increase in length by means of a single apical cell, situated at the bottom of a depression at the tip of each branch.
- Dichotomous branching.
- No sexual reproduction by means of spores or other reproductive bodies.
- The development of sex-organs in conceptacles at the swollen tips of the branches of the frond.
- Oogamous sexual reproduction, resulting in the formation of numerous small motile sperms and non-motile large, round eggs.

(2)

- Formation of eight eggs within a single Oogonium - a primitive feature.
- Ova are set free before fertilisation so that fusion between the sperms and the ova takes place in the open water.
- Germination of the zygote, without undergoing any resting period - a feature in contrast to the delayed germination of the zygote of green algae.
- Reduction division takes place at the time of the differentiation of gametes rather than at the time of germination of the zygote.
- The Fucus plant itself is diploid, while in the green algae, the parent plant is usually haploid.

==
(Continued ---)