

DEPARTMENT OF BOTANY BY: DR. RANJANA
D.B. COLLEGE, JAYNAGAR. ASST. PROFESSOR
L.N.M.U. DARBHANGA. (GUEST)
LECTURE No: 08 DATE: 9th Nov. 2020
B.Sc(H) PART I PAPER I

CORE CONCEPT OF ALGAE

REPRODUCTION IN (ALGAE) FUCUS:

1 Vegetative or Asexual Reproduction:-

The only method of asexual reproduction or vegetative reproduction in Fucus is by fragmentation.

2. Sexual Reproduction:- The method of sexual reproduction is heterogamous. The gametes are borne in oogonia or Antheridia, which are produced in the conceptacles. In some species each conceptacle contains both oogonia and antheridia. In others there are distinct male and female conceptacles borne on two different thalli. Within each conceptacle are many multicellular hairs, which is the paraphyses which are mixed with antheridia and archezia. The oval oogonium is produced from a single cell and is borne on a short stalk. By cell division Eight egg cells are

produced being enclosed in a cell-wall of two or three layers. All eight eggs or ova liberated when mature, out in water. The antheridia are smaller and more numerous than the oogonia. And are borne in groups on short much branched hairs. Like oogonium, antheridial wall is also composed of two to three layers. Numerous pear-shaped antherozoids with two laterally inserted unequal flagella are produced in the antheridium. Eggs floating free in water. Antherozoids set the non-motile eggs in rotation and may continue until an antherozoid penetrates the egg and fertilizes it resulting in an oospore. The oospore forms a thin wall and at once divides to produce new Ricus plant without undergoing a resting period. The lower cell growing into the Rhodofast and the upper the thallus. Meiosis in the life-cycle of Ricus takes place during gametogenesis, as such the diploid phase is very predominating as against haploid phase.