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Lecture No: 23

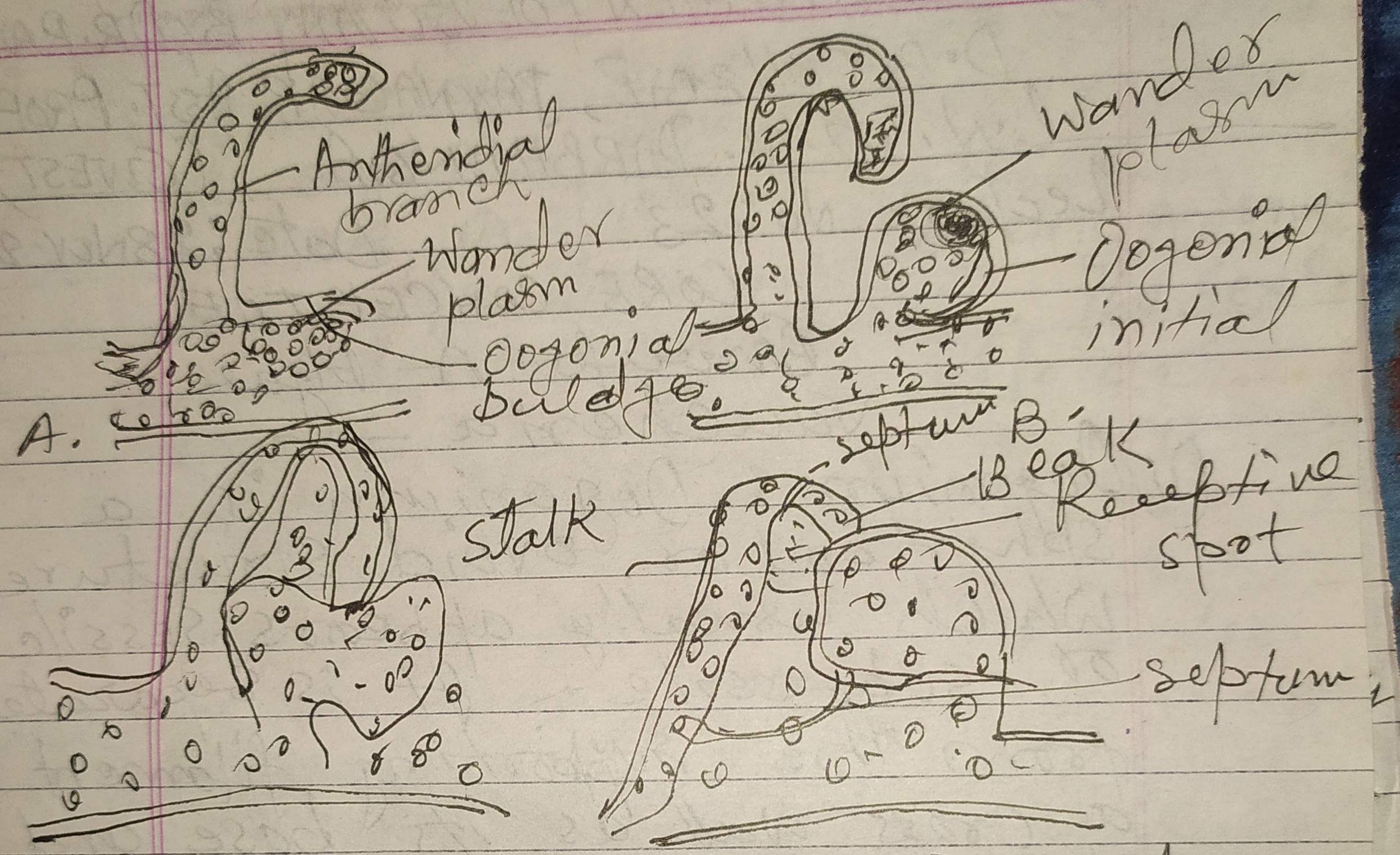
Date: 28 NOV. 2020

CORE CONCEPT OF
Group - A Algae
Vaucheria

(ii) Zoogonium: Zoogonium is a spherical or ovoid structure which usually appears sessile or subsessile. It is separated from the supporting filament by a cross wall at its base and develops a short rounded beak at the tip towards maturity.

Development of sex organs (i)

Antheridium — In the monoecious species (terrestrials) in which sex organs occur close to one another on the same filament the antheridial branch arises as a lateral outgrowth. The terminal curved portion of the branch, which constitutes the antheridium.



C Fig - Development of *D. Vaucheria*.
 Fertilization: Pringsheim (1855) reported that both the sex organs open almost simultaneously, the oogonium a little before the antheridium. The antheridia and oogonia situated close together may dehisce almost at the same time or either of them may open from a few minutes to 2 hours before the other dehisces.

Several sperms emitted through the pore in the oozonial wall. Only one of them is able to pierce the oospore at the receptive spot. The small male nucleus lies near the female nucleus and increases in size until it has swollen to nearly the same volume prior to fusion with the latter. The zygote secretes a several layers thick wall around itself to become an oospore. The oospore is liberated by the decay of the oozonial wall.

Germination of oospore: After the dormant period, the oospore germinates directly.