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Class : Deg. I (subs.)

Topic : General characters of Lichen (Contd.)

Lecture No. - 82

Date : 18/09/2020

General characters of Lichen :

• Sexual Reproduction in Lichen

The sexual reproduction in ascolichens is oogamous type. The ascogonium is the female sex organ and the spermatogonium is the male sex organ.

(i) Ascogonium :

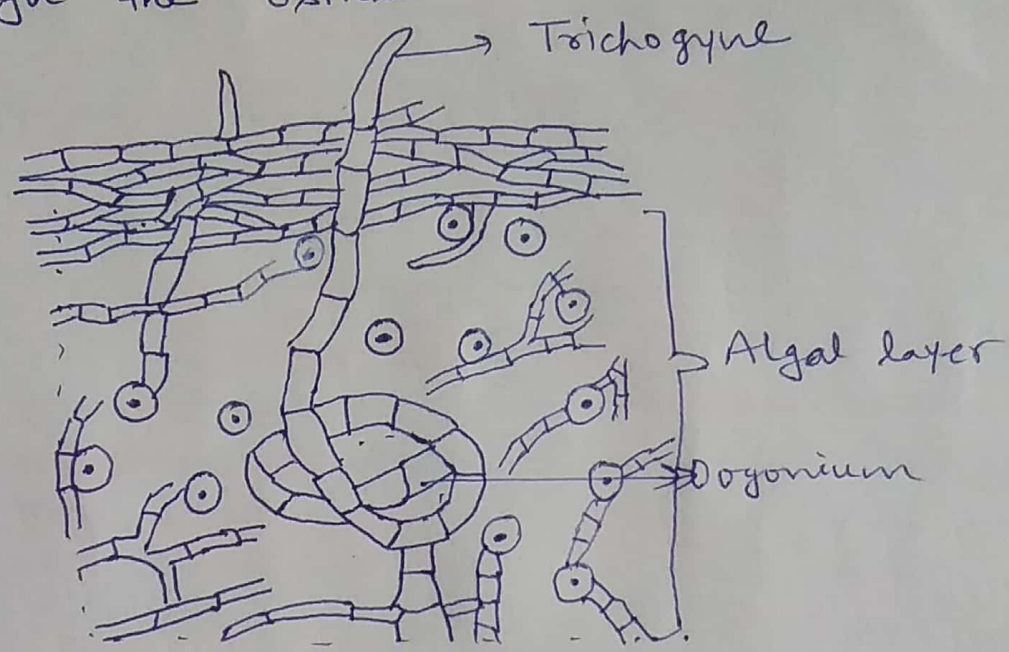
Ascogonium is a long multicellular hyphae which develops from deep in the algal layer. The coiled base of it is oogonium and the straight portion of it is the trichogyne. The trichogyne in some cases may be projected outside of the thallus. More than one ascogonia may develop at a point where an apothecium is later formed but only one become fertile.

(ii) Spermatogonium :

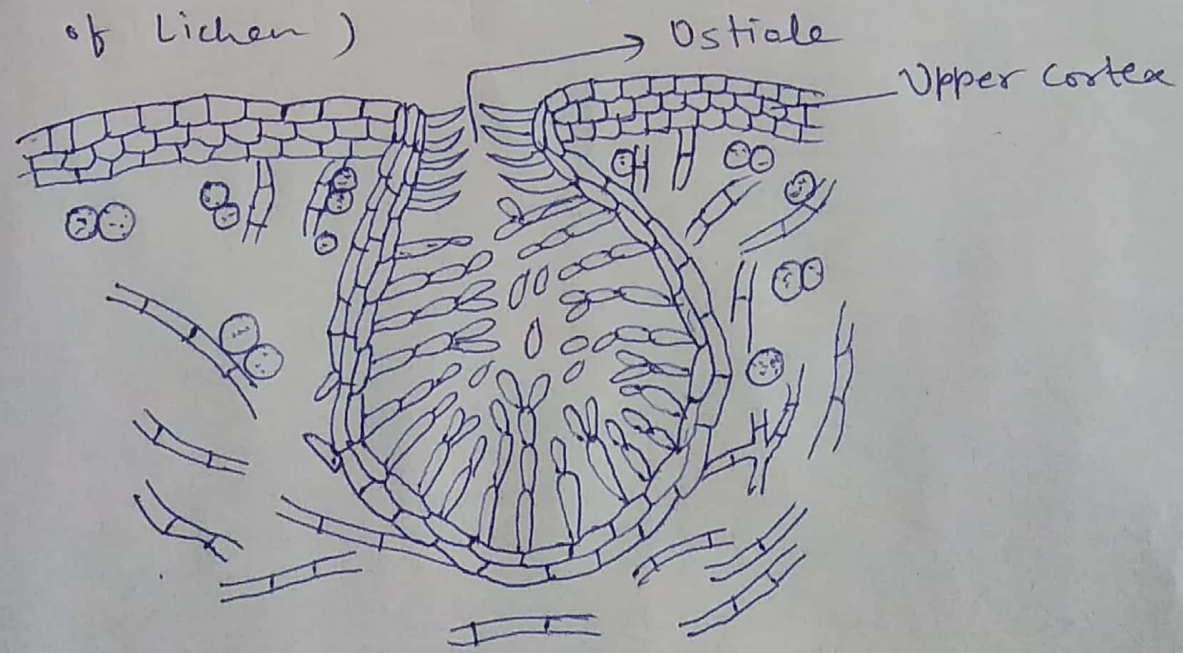
The spermatogonium is a flask shaped cavity immersed in the thallus and opens at the anterior end by ostiole.

The fertile hyphae lining the inner surface of spermatogonium produce large number of non-motile functional male gametes, the spermatia.

The spermatia are liberated outside by wind through the ostiole.



(Fig: V.S. of thallus showing Ascomonium and Trichogyne of Lichen)



(Fig: Spermatogonium of Lichen) (Continued - -)