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Dept. of Botany

Class : Deg. - I (Subs.)

Topic : General characters of Lichen (Contd.)

Lecture No. - 75

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General characters of Lichen (Contd.)

• Reproduction in Lichen :

All the three types of reproduction found in lichens :

(i) Vegetative ; (ii) Sexual ; and (iii) Asexual.

(i). Vegetative Reproduction :

It takes place by following methods :

(i) By fragmentation :

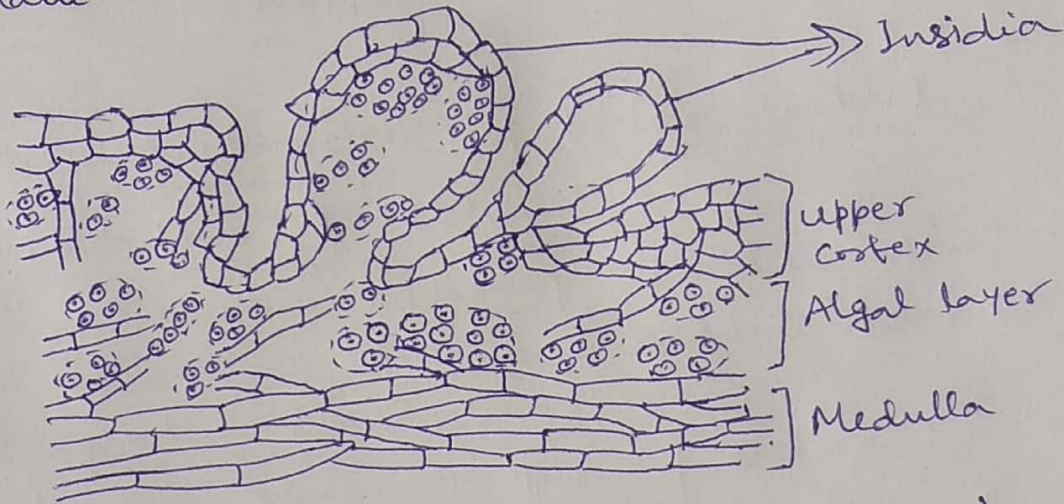
On maturity the thallus breaks into several pieces or fragments. Each piece develops into a new thallus.

(ii) By Isidia and Soredia :

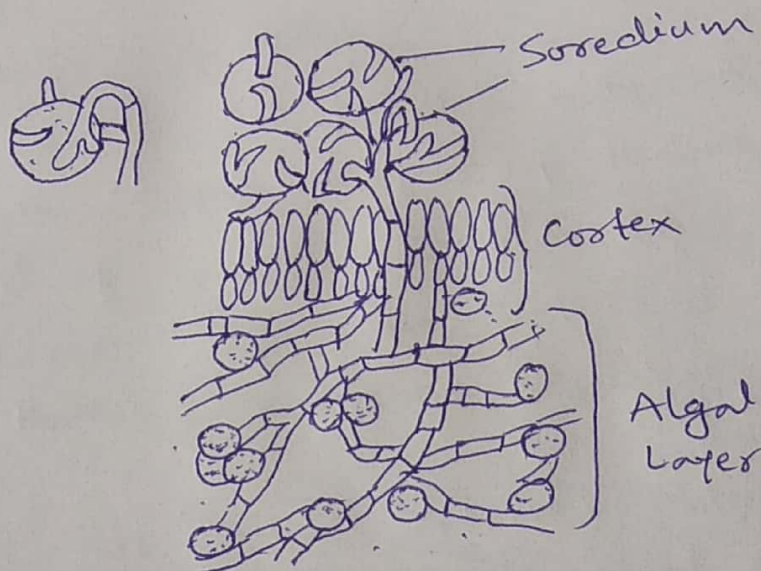
• Isidia are small papillate outgrowths developed from the upper surface of thallus. They are composed of external cortical layer and internal algal layer. When they detached from the parent thallus, serve as vegetative reproductive bodies.

• Soredia are small spherical outgrowths composed of one or more algal cell, enclosed by a few fungal hyphae. They develop in algal layers at places, where the overlying upper cortex is absent.

They are found on the surface of the thallus as greyish powder, which are blown away by wind and germinate under favourable condition on a suitable substratum to produce new thalli



(Fig: Formation of Isidia in Lichen)



(Fig: Soredia formation in Lichen)

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