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class : Deg. I (Hons.)

Paper : I (Algae)

Topic : Polysiphonia (Contd.)

Lecture No. - 107

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• Salient features of Polysiphonia (Contd.):

- (XII). The migration of one of the diploid nuclei into the auxillary cell.
- (XIII). The development of gonimoblast filaments from the auxillary cell.
- (XIV). The formation of a diploid carpospore in the modified terminal cell of the gonimoblast filament now called the carposporangium.
- (XV). The development of carposporophyte bearing carpospores.
- (XVI). The formation of fruit body or fructification called the cystocarp, consisting of an urn-shaped sheath containing the carpospores.
- (XVII). Development of tetrasporophyte by the germination of the diploid carpospore. The tetrasporophytes are concerned with asexual reproduction.
- (XVIII). Asexual reproduction by the formation of 4-tetraspores in each tetrasporangium borne on the tetrasporophyte.



x). Reduction division occurring at the time of the differentiation of tetraspores, which are thus haploid.

x). Germination of haploid tetraspores to give rise the gametophyte or the sexual plant concerned with sexual reproduction.

x). Distinct alternation of generations consisting of morphologically alike sexual and asexual plants.

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