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Sub. – Biology

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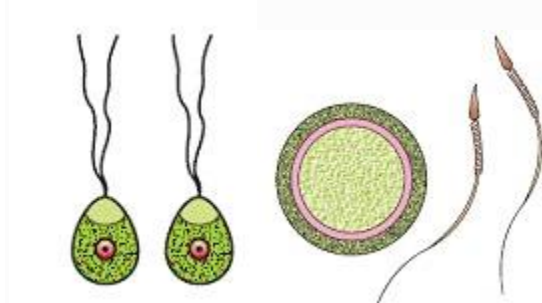
LESSON 1 Reproduction in Organisms

Events in Sexual Reproduction : Pre-fertilisation, Fertilisation, Post-fertilisation

Pre-fertilisation– all the events prior to fusion of gametes are included in it. It includes gametogenesis and gamete transfer.

a. Gametogenesis is the process of formation of male and female gametes.

Gametes are haploid cells which may be similar or dissimilar in structure. In algae, both gametes are similar in structure called **homogametes (isogametes)**. In higher organism that reproduces sexually, two morphologically distinct gametes are formed called **heterogametes**, male gametes are called **antherozoid or sperm** and female gametes are called **ovum or egg**.



Isogametes. heterogametes

In fungi and plants, **homothallic** and **monoecious** terms are used to denote the bisexual condition and **heterothallic** and **dioecious** are used for unisexual condition. In flowering plants, the unisexual male flower is **staminate**, i.e., bearing stamens, while the female is **pistillate** or bearing pistils.