

Biology

(i) amphibians of plants

Bryophytes were the first plants to colonize land they are poorly adapted to land live in damp shady places. but they cannot live away from water they need water for reproduction that's why they are called amphibians of plants.

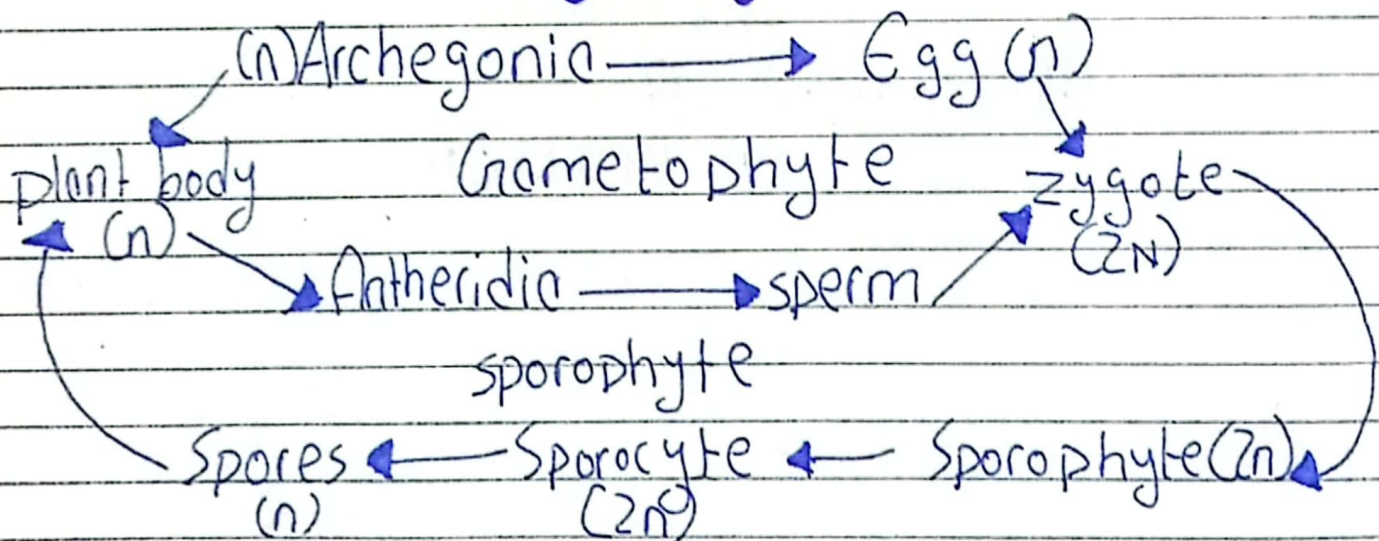
(ii) Alternation of generation

- In the process multicellular haploid gametophyte alternates with multicellular haploid sporophyte.
- It is very important which provides continuous genetic variabilities.
- Selection for the best genetic make up for survival and adaptation in changing environment.
- Gametophyte is dominant and sporophyte remains attached to it.

(iii) Arthrophytes

Plants belonging to this group are also called arthrophytes, because the whole plant body is composed of large number of joints. Main stem is not smooth, it has large number of ridges and furrows.

(iv) Life cycle of Bryophytes



(v) Hornworts

This group of bryophytes differs in many respects and is highly advanced than other groups.

- gametophyte is highly lobed and irregular.
- Except for early stage the sporophyte is not dependent on gametophyte for nourishment and protection.
- Antheridia and archegonia are sunken in gametophyte.

MCQs

- ① Parallel venation.
- ② Gymnosperm.
- ③ Lycopside.
- ④ Seven.
- ⑤ Saccharum munja.