

Q 8. Give the economic importance of Penicillium.

Ans. From Penicillium an antibiotic is obtained, called Penicillin. It spoils our food stuff.

Q 9. Give the scientific name of loose smut of wheat.

Ans. The scientific name of loose smut of wheat is *Ustilago tritici*.

Q 10. Give the systemic position of Ustilago tritici.

Ans. *Ustilago tritici* belongs to kingdom Fungi, class Basidiomycetes.

Q 11. What do you know about economic importance of Ustilago?

Ans. *Ustilago* causes smut disease in wheat, rice, maize, sugarcane and causes great loss.

ACTIVITY 8 — (Bryophytes) (*Marchantia*, *Funaria*)

Q 1. What are gamma cups?

Ans. Gamma cups are the vegetative reproductive organs, produce gametes, which develop into new *Marchantia* plants.

Q 2. What are archegonia and antheridia?

Ans. Archegonia are female reproductive organs and antheridia male reproductive organs in *Marchantia* and *Funaria*.

Q 3. Give the characteristics of *Marchantia* thallus.

Ans. *Marchantia* thallus is dichotomously branched. Each branch has midrib. The thallus produces gamma cups, rhizoids.

Q 4. How will you differentiate between male and female *Marchantia* thallus?

Ans. The male *Marchantia* thallus produces male receptacle. It is disc-shaped, produces antheridia. Female *Marchantia* thallus produces female receptacle. It is star-shaped with finger like projections and produces archegonia.

Q 5. Is there alternation of generations in *Marchantia*?

Ans. Yes there is alternation of generations in *Marchantia*.

Q 6. Where *Marchantia* grow?

Ans. *Marchantia* grows on moist and shady places.

Q 7. Name different parts of *Funaria* sporophyte.

Ans. The sporophyte of *Funaria* consists of three parts, lower foot, middle seta and upper capsule.

Q 8. Give characteristics of *Funaria* gametophytes.

Ans. *Funaria* gametophyte is a small plant consists of rhizoids, stem and leaves.