

Lecture:8

a- Seed- producing plants:

1- Gymnosperms:

- The sporophytes are woody trees or shrubs.
- Animals, wind or moving water carry the pollen to the female gametophyte.
- Produce huge amounts of pollen

There are four groups of the gymnosperm:

a- Cycads (Phylum Cycadophyta)

- Live in the tropical and sub-tropical regions
- Have palm like leaves
- Plants are male and female
- Produce large cones

Ex. Cycas

b- Ginkgos (Phylum Ginkgophyta).

- Fan –shaped leaves
- Tree either male or female

Ex. Ginkgo

c- Conifers (Phylum Coniferophyta):

- Have needle like or scale like leaves
- Produce cones
- Monoecious (Pinus) or Dioecious (Juniperus)
- Sporophytes are woody trees
- Gametophytes are reduced

d- Gnetophytes (Gnetophyta):

- Having vessel elements (Which transport water) like flowering plants, Sogentophytes is closest relations to the flowering plants.

Ex. Ephedra

Angiosperm (Seed Palnt): Plant produce seeds enclosed in a structure such as a carpel or ovary:

- Are plants with flowers and fruits
- More than 95% of modern plants are angiosperms
- Dominate major terrestrial zones.