

## Characteristics of Pteridophytes

1. Give adaptive features of Pteridophyte for land habit.
2. What is prothallus?

## Characters of different divisions of Pteridophytes

1. Write two characters of Filicophyta.
2. Write characteristics of filicophyta.
3. Write characteristics of Psilophyta.
4. Write characteristics of Sphenophyta. Give an example of one extant member of this group.
5. Name one fossil Psilophyta.
6. Name one fossil member of Sphenophyta.

## Life cycle of *Pteris* and *Selaginella*

1. What is coenosorus? Give an example.
2. What is ligule?
3. Write scientific name of a homosporous fern.
4. Write scientific name of a heterosporous fern.
5. Name one Indian heterosporous lycophyta.
6. Name one ligulate Pteridophyte.
7. What is sorus?
8. What is Rhizophore?
9. Name one Indian species of *Selaginella*.
10. What is coenosorus?
11. What is meant by heteropsory?
12. Describe the structure of coenosorus in a plant studied by you. Give the life cycle of a plant with ceonosorus.
13. Draw and describe the structure of sporophyte and gametophyte of a homosporus fern.
14. Describe with diagrams structure of strobilus of a heterosporous petridophyte.
15. Describe with diagrams structure of female gametophyte of a heterosporous petridophyte.
16. Give a comparative account of sporophylls of *Selaginella* and *Pteris*.
17. Briefly discuss life cycle of Homosporous Pteridophyte.
18. Briefly discuss life cycle of Heterosporous Pteridophyte.
19. Describe with diagrams the structure of sorus and prothallus of *Pteris*.

## Economics importance of pteridophytes

1. Write scientific name of an edible pteridophyte.
2. Name two economically important petridophytes.
3. Name one Pteridophyte used as medicine.
4. Name one Pteridophyte used as vegetable.
5. Name a pteridophyte used as biofertilizer.
6. Comment on economic importance of Pteridophytes.

## Gymnosperms

### One mark questions:

- i. What is sulphur shower?
- ii. What and function of transfusion tissue?
- iii. Write scientific name of one progymnosperm.
- iv. What is form genus?
- v. What is amber?
- vi. What is coralloid root? Found where.
- vii. What is ovuliferous scale?
- viii. Name one Indian species of *Pinus*.
- ix. What is living fossil?
- x. Example of coniferophyta.
- xi. Angiospermic feature of *Gnetum*.
- xii. Fern character of *cycas*.
- xiii. Example of gymnospermous living fossil.
- xiv. Xerophytic character of *Cycas*.
- xv. Name an edible *Pinus* species
- xvi. Name an Indian species of *Cycas*.
- xvii. What is seedcone complex?

### Five marks questions:

1. Fern features of *cycas*.
2. Diagnostic features of Cycadophyta.
3. Male cone of *Cycas*. Diagram.
4. Structure of microsporophyll of *Cycas* diagram.
5. Mention features of dwarf shoots of *Pinus*.

Ten marks questions:

1. Compare megasporophyll of *Cycas* and *Pinus* with diagrams. Name two medicinally important gymnosperms.
2. Features of Gnetophyta with example. Mention two medicinally important gymnosperms. Describe structure of ovule of *Cycas* and *Pinus*.
3. Describe the structure of female strobilus of *Pinus* with diagrams. Function of transfusion tissue. Gnetophyta characters.
4. Female gametophytic structure of *Cycas*.