

## TOPICS : Plant Kingdom

- Peat moss is another name of
  - sphagnum*
  - Marchantia*
  - Riccia*
  - Dryopteris*
- Pteridophytes differ from mosses/brophytes in possessing
  - independent gametophyte
  - well developed vascular system
  - archegonia structure
  - flagellate spermatozoids
- In Chlorophyceae, sexual reproduction occurs by
  - isogamy and anisogamy
  - isogamy, anisogamy and oogamy
  - oogamy only
  - anisogamy and oogamy
- Laminaria* (kelp) and *Fucus* (rock weed) are the examples of
  - red algae
  - brown algae
  - green algae
  - golden brown algae
- People recovering from long illness are often advised to include the algae *Spirulina* in their diet because it
  - makes the food easy to digest
  - is rich in proteins
  - has antibiotic properties.
  - restores the intestinal microflora.
- Consider the following statements regarding the major pigments and stored food in the different groups of algae and choose the correct option.
  - In Chlorophyceae, the stored food material is starch and the major pigments are chlorophyll-a and d.
  - In Phaeophyceae, laminarin is the stored food and the major pigments are chlorophyll-a. and b.
  - In Rhodophyceae, floridean starch is the stored food and the major pigments are chlorophyll-a, d and phycoerythrin.
  - (i) is correct, but (ii) and (iii) are wrong.
  - (i) and (ii) are correct, but (iii) is wrong.
  - (i) and (iii) are correct, but (ii) is wrong.
  - (iii) is correct, but (i) and (ii) are wrong.
- Algae have cell wall made up of
  - cellulose, galactans and mannans
  - hemicellulose, pectins and proteins
  - pectins, cellulose and proteins
  - cellulose, hemicellulose and pectins.
- Read the following five statements (i – v) and answer the question.
  - In *Equisetum* the female gametophyte is retained on the parent sporophyte.
  - In *Ginkgo* male gametophyte is not independent
  - The sporophyte in *Riccia* is more developed than that in *Polytrichum*
  - Sexual reproduction in *Volvox* is isogamous
  - The spores of slime molds lack cell walls
 How many of the above statements are correct ?
  - Two
  - Three
  - Four
  - One
- Which one of the following is common to multicellular fungi, filamentous algae and protonema of mosses ?
  - Diplontic life cycle
  - Members of kingdom plantae
  - Mode of Nutrition
  - Multiplication by fragmentation
- Which one of the following is a correct statement ?
  - Pteridophyte gametophyte has a protonemal and leafy stage
  - In gymnosperms female gametophyte is free-living
  - Antheridiophores and archegoniophors are present in pteridophytes
  - Origin of seed habit can be traced in pteridophytes

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**TOPICS : Plant Kingdom Answer Key**

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- 1 A
- 2 B
- 3 B
- 4 B
- 5 B
- 6 D
- 7 A
- 8 A
- 9 D
- 10 D