

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

TOPICS : Plant Kingdom Answer Key

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