



Class 11 Biology | Plant Kingdom

MCQ WORKSHEET • 15 questions • Choose one correct option • Suggested time: 25 minutes

1. A photosynthetic aquatic organism stores floridean starch. It is likely a

- A. Fern B. Brown alga C. Red alga D. Moss

2. Which pigment largely gives brown algae their colour?

- A. Haemoglobin B. Fucoxanthin
C. Phycoerythrin D. Anthocyanin

3. A moss differs from a fern in lacking

- A. Spores
B. A multicellular embryo
C. True vascular tissues
D. Chlorophyll

4. Why do bryophytes require water for sexual reproduction?

- A. Male gametes swim to the egg
B. Fruits require immersion
C. Seeds float to the soil
D. Pollen tubes grow only underwater

5. The dominant independent stage in a fern is the

- A. Sporophyte B. Zygote alone
C. Protonema D. Endosperm

6. In mosses, the sporophyte is generally

- A. A naked seed
B. The only photosynthetic phase
C. Attached to and dependent on the gametophyte
D. Identical to pollen

7. Which pair exhibits heterospory?

- A. Selaginella and Salvinia
B. Funaria and Marchantia
C. Spirogyra and Ulothrix
D. Chara and Riccia

8. Heterospory is evolutionarily significant because it is associated with the origin of

- A. Radial symmetry B. Mycelium
C. Jointed appendages D. Seed habit

9. A plant bears ovules not enclosed in an ovary. It is a

- A. Gymnosperm B. Green alga
C. Angiosperm D. Bryophyte

10. Which tissue in a gymnosperm seed nourishes the embryo and is haploid?

- A. Zygote
B. Seed coat
C. Diploid nucellus only
D. Female gametophyte

11. Double fertilisation produces a zygote and, typically, a triploid tissue in

- A. Mosses B. Angiosperms
C. Ferns D. Brown algae

12. In a haplontic life cycle, meiosis normally occurs in the

- A. Haploid thallus during growth
B. Haploid gamete
C. Zygote
D. Pollen tube

13. A gametophyte produces gametes by

- A. Meiosis B. Fertilisation
C. Mitosis D. Triple fusion

14. Coralloid roots of Cycas commonly contain

- A. Malaria parasites
B. Mycorrhizal basidia only
C. Diatoms
D. Nitrogen-fixing cyanobacteria

15. Which algal group typically stores laminarin and mannitol?

- A. Bryophyta B. Phaeophyceae
C. Chlorophyceae D. Rhodophyceae

ANSWER KEY — check after completing all 15 questions

1.C 2.B 3.C 4.A 5.A 6.C 7.A 8.D 9.A 10.D 11.B 12.C 13.C 14.D 15.B