

Plant Kingdom

1. **Which of the following statements about Bryophytes is NOT correct?**
 - a) They are non-vascular plants
 - b) They have a dominant sporophytic phase
 - c) They show an alternation of generations
 - d) They require water for fertilizationAnswer - B
2. **Which of the following is NOT a characteristic of algae?**
 - a) Autotrophic nutrition
 - b) Cell wall made of cellulose
 - c) Reproduction by spores
 - d) Lack of true roots, stems, and leavesAnswer – C
3. **Which of the following is NOT a characteristic of gymnosperms?**
 - a) Naked seeds
 - b) Woody stems
 - c) Sporophyte-dominant life cycle
 - d) Double fertilizationAnswer – D
4. **The dominant generation in bryophytes is the**
 - a) Sporophyte
 - b) Gametophyte
 - c) Zygote
 - d) EmbryoAnswer – B
5. **Which of the following statements about fungi is NOT correct?**
 - a) They are heterotrophic
 - b) They have cell walls made of chitin
 - c) They reproduce by spores
 - d) They have chloroplasts for photosynthesisAnswer – D
6. **Which of the following is NOT a type of asexual reproduction in plants?**
 - a) Vegetative propagation
 - b) Budding
 - c) Fragmentation
 - d) Sexual reproductionAnswer – D
7. **Read the following statements (1-5) and answer the question which follows them.**
 - In liverworts, mosses and ferns gametophytes are free-living
 - Gymnosperms and some ferns are heterosporous.
 - Sexual reproduction in Fucus, Volvox, and Albugo is oogamous
 - The sporophyte in liverworts is more elaborate than that in mosses
 - Both, Pinus and Marchantia are dioecious**How many of the above statements are correct?**
 - (a) Two
 - (b) Three
 - (c) Four
 - (d) OneAnswer – B
8. **Which of the following is responsible for peat formation?**
 - (a) Marchantia

- (b) Riccia
- (c) Funaria
- (d) Sphagnum

Answer – D

9. **An alga that can be employed as food for the human being is:**

- (a) Ulothrix
- (b) Chlorella
- (c) Spirogyra
- (d) Polysiphonia

Answer – B

10. **Read the following five statements (A to E) and select the option with all correct statements:**

- (A) Mosses and Lichens are the first organisms to colonize bare rock.
- (B) Selaginella is a homosporous pteridophyte
- (C) Coralloid roots in Cycas have VAM
- (D) Main plant body in bryophytes is gametophytic, whereas in pteridophytes it is sporophytic
- (E) In gymnosperms, male and female gametophytes are present within sporangia located on the sporophyte

- (a) (B), (C), and (D)
- (b) (A), (D), and (E)
- (c) (B), (C), and (E)
- (d) (A), (C), and (D)

Answer – B

11. **An example of colonial alga is :**

- (a) Volvox
- (b) Ulothrix
- (c) Spirogyra
- (d) Chlorella

Answer – A

12. **Select the mismatch**

- (a) Cycas – Dioecious
- (b) Salvinia – Heterosporous
- (c) Equisetum – Homosporous
- (d) Pinus – Dioecious

Answer – D