

BIOLOGY

BOOKS - NCERT BIOLOGY (HINGLISH)

PLANT KINGDOM

Multiple Choice Questions

1. Cyanobacteria are classified under

A. Protista

B. I	Plant	tae
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C. Monera

D. Algae

Answer:



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2. Fusion of two motile gametes which are dissimilar in size is termed as

A. oogamy

- B. isogamy
- C. anisogamy
- D. zoogamy

Answer:



- **3.** Holdfast, stipe and frond constitutes the plant body in case of
 - A. Rhodophyceae

- B. Chlorophyceae
- C. Phaeophyceae
- D. All of these

Answer: C



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4. A plant shows thallus level of organization.

It shows rhizoids and is haploid. It needs water

to complete its life cycle because the male

gametes are motile. Identify the group to which it belongs to

- A. pteridophytes
- B. gymnosperms
- C. monocots
- D. bryophytes

Answer: D



5. A Prothallus is

- A. a structure in pteridophytes formed before the thallus develops
- B. a sporophytic free living structure formed in pteridophytes
- C. a gametophyte free living structure formed in pteridophytes
- D. a primitive structure formed after fertilisation in pteridophytes

Answer: C



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6. Plants of this group are diploid and well adapted to extreme conditions. They grow bearing sporophylls in compact structures called cones. The group in reference is

A. monocots

B. dicots

C. pteridophytes

D. gymnosperms

Answer:



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7. The embryo sac of an angiosperms is made up of

A. 8 cells

B. 7 cells and 8 nuclei

C. 8 nuclei

D. 7 cells and 7 nuclei

Answer:



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8. If the diploid number of a flowering plant is 36. what would be the chromosome number in its endosperm

A. 36

B. 18

- C. 54
- D. 72

Answer:



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9. Protonema is

- A. haploid and is found in mosses
- B. diploid and is found in liverworts
- C. diploid and is found in pteridophytes

D. haploid and is found in pteridophytes

Answer: A



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10. The giant redwood tree (Sequoia sempervirens) is a/an

A. angiosperm

B. free fern

C. pteridophyte

D. gymnosperm

Answer:



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Very Short Answer Type Qustions

1. Food is stored as floeidean starch in Rhodophyceae. Mannitol is the reserve food material of which group of algae ?



- 2. Give an example of plants with
- (a) haplontic life cycle
- (b) diplontic life cycle
- (c) haplo diplontic life cycle



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3. The plant body of higher plants is well differentiated and well developed. Roots are the organs used for the purpose of

absorption. What is the equivalent of roots in the less developed lower plants?



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4. Most algal genera show haplontic life style. Name an alga which is (a) Haplo diplontic (b)

Diplontic



5. In bryophytes male and female sex organs are called And



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Short Answer Type Qustions

1. Why are bryophytes called the amphibians of the plant kingdom?



2. The male and female reporductive organs of several pteerodphytes and gumonosperms are comparable to floral structures of angiosperms. Make and attempt to compare the various reproductive parts of pteridophytes and gymnosperms with reproductive structure of angiosperms.



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3. Heteropory, i.e., formation of two types of sporres-microspores and megaspores is a

characteristic feature in the life cycle of a few members of pteridophytes and all spermatophtes. Do you think heterospory has some evolutionary significance in plant kingdom?



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4. How far does Selaginella one of the living members of Lycopodiales (pteridophytes) fall short of seed habit?



5. Each plant or group of plnats has some ophylogenetic siginificance in relation to evolution Cycas, one of the few living members of gymnosperms is called as the 'relic of past'. Can you establish a phylogenetic relationship of Cycas with any other group of plants that justifies the abvoe statement?

A.

В.

C.

D.

Answer:



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6. The heterosporous pteridophyte show certain characteristics, which are precursor to the seed habit in gymnosperms. Explain



7. Comment of the life cycle and nature of a fern prothallus.



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8. How are the male and female gametophytes of pteridophytes and gymnosperms different from each other?



9. In which plant will you look for mycorrhiza and corolloid roots? Aslo explain what these terms mean



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Long Answer Type Qustions

1. Gametophyte is a dominant phase in the life cycle of a bryophyte. Explain.



2. With the help of a schematic diagram describe the haplodiplontic life cycle pattern of a plant group.



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3. Lichen is usually cited as an example of 'symbiosis' in plants where an algal and a fungal species live together for their mutual benefit. Which of the following will happen if algal and fungal partners are separated form

- each other
- (a) Both will survive and grow normally and independent from each other.
- (b) Both will die
- (c) Algal component will survive while the fungal component will die.
- (d) Fungal component will survive while algal patern will die.



4. Explain why sexual reproduction in angiosperms is said to take place through double fertilisation and triple fusion. Also draw a labelled diagram of embryo sac to explain the phenomena.



- 5. Draw labelled diagrams of
- (a) Female and male thallus of a liverwort.

- (b) Gametophyte and sporophyte of Funaria.
- (c) Alternation of generation in angiosperm

