**Neha Malhotra** **R.L. Institute M: 9416974837**

**Max Time : 1 hr** **Class = 11th Biology Test Max Marks : 30**

**Topic: Plant Kingdom**

1. Multiple choice questions : [ 1 X 10 = 10 ]
2. In pteridophytes, the sporophyte consists of leaf like appendages called as :

|  |  |  |  |
| --- | --- | --- | --- |
| a) megaphylls | b) sporophylls | c) thalli | d) sporangia |

1. Holdfast, stipe and frond constitute the plant body in case of :

|  |  |  |  |
| --- | --- | --- | --- |
| a) Rhodophyceae | b) Chlorophyceae | c) Phaeophyceae | d) All of these |

1. \_\_\_\_\_\_\_ is discussed under phylogenetic system if classification.

|  |  |
| --- | --- |
| a) Evolutionary relationship of organism | b) Cytotaxonomy |
| c) Cytological information | d) Structural embryology |

1. The main plant body of bryophytes is \_\_\_A\_\_\_. It produces \_\_\_B\_\_\_. Hence called as \_\_\_C\_\_\_.
2. A – Diploid ; B – Endospores ; C – Sporophyte
3. A – Haploid ; B – Conidia ; C – gametophyte
4. A – Diploid ; B – Spores ; C – Sporophyte
5. A – Haploid ; B – Gametes ; C – gametophyte
6. A prothallus is :
7. A structure in pteridophyte formed before thallus developed.
8. A sporophyte free-living structure formed in pteridophytes.
9. A gametophytic free-living structure formed in pteridophytes.
10. A primitive structure formed after fertilization in petridophytes.
11. Which plant group has vascular tissues, produces spores, but does not have seeds?

|  |  |  |  |
| --- | --- | --- | --- |
| a) Bryophyta | b) Pteridophyta | c) Gymnosperms | d) Angiosperms |

1. Which of the following gymnosperm has coralloid roots associated with N2-fixing cyanobacteria?

|  |  |  |  |
| --- | --- | --- | --- |
| a) Pinus | b) Cycas | c) Cedrus | d) Ginkgo |

1. The unique features of bryophytes in comparison to other green plant groups is that:
2. They produce spores.
3. They lack vascular tissue.
4. They lack roots.
5. Their sporophyte is attached to the gametophyte.
6. Stored food in Phaeophyceae is :

|  |  |
| --- | --- |
| a) Mannitol and laminarian | b) Floridean starch |
| c) Pyrenoids | d) All of the above |

1. Cell wall of red algae contains :

|  |  |
| --- | --- |
| a) Cellulose | b) Pectins |
| c) Polysulphate esters | d) All of these |

1. Which plants is called as “Reptiles of Plant Kingdom”? [ 1 ]
2. In which plant coralloid root are present? [ 1 ]
3. Which green algae is used by space travelers as protein rich food? [ 1 ]
4. Name the constituents of cell wall in green algae. [ 1 ]
5. The sporophyte in distinguished into 3 parts in bryophytes, name them. [ 1 ]
6. Life cycle of algae is \_\_\_\_\_\_\_\_. [ 1 ]
7. Differentiate between Cytotaxonomy and Chemotaxonomy. [ 2 ]
8. Write the name of sex organs in pteridophytes and briefly describe them. [ 2 ]
9. Differentiate between Liverworts and Mosses. [ 2 ]
10. Differentiate between Homosporous and heterosporous pteridophytes. [ 2 ]
11. Write the economical importance of Algae and Gymnosperms. [ 3 ]
12. Distinguished between Bryophytes and Pteridophytes. [ 3 ]