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**Max Time : 1 hr** **Class = 11th Biology Test Max Marks : 40**

**Topic: Plant Kingdom**

1. Multiple choice questions : [ 1 X 20 = 20 ]
2. Green algae have cell wall made up of

|  |  |
| --- | --- |
| a) Outer layer of pectose and inner layer of cellulose | b) Cellulose + Algin |
| c) Inner layer of pectose and outer layer of algin | d) Cellulose + peptidoglycan |

1. Which pigment is found in brown algae

|  |  |
| --- | --- |
| a) Chl a + Chl c | b) Chl a + Chl c + Fucoxanthine |
| c) Chl a + Chl d | d) Chl a + r-Phycoerythrin |

1. Sphagnum is used for packaging material for transportation of living materials because :

|  |  |
| --- | --- |
| a) Acidic nature | b) Creeping capacity |
| c) Water holding capacity | d) (a) & (b) |

1. In bryophytes male gametes is :

|  |  |  |  |
| --- | --- | --- | --- |
| a) Non flagellate | b) Biflagellate | c) 3 flagella | d) Many flagella |

1. The alternation of generation the sporophyte generation is \_\_\_\_\_ and gametophyte generation is \_\_\_\_\_\_\_

|  |  |  |  |
| --- | --- | --- | --- |
| a) N , 2N | b) 2N , 2N | c) 2N , N | d) N , N |

1. Floridean starch structure similar to

|  |  |
| --- | --- |
| a) Amylopectin and glycogen | b) Mannitol and algin |
| c) Laminaria and cellulose | d) Starch and cellulose |

1. In which of the following gymnosperms carolloid root having N2-fixation cyanobacteria (Nostoc) is found

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

1. Branched stem is found in :

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

1. The leaves of gymnosperms are well adapted to withstand extremes of temperature, humidity and wind. In conifers what are the xerophytic characters :

|  |  |  |  |
| --- | --- | --- | --- |
| a) Needle like leaves | b) Thick cuticle | c) Sunken stomata | d) All of these |

1. Megaspore mother cell undergo \_\_\_\_\_\_\_\_\_ division to form megaspore.

|  |  |  |  |
| --- | --- | --- | --- |
| a) Mitosis | b) Meiosis | c) Amitosis | d) Dinomitosis |

1. Leaves bearing sporangium are sporophyll. In some pteridophytes sporophylls form compact mass structure called :

|  |  |  |  |
| --- | --- | --- | --- |
| a) Sporocarp | b) Strobilus or cone | c) Spike | d) Flower |

1. In pteridophytes, Phloem is without

|  |  |  |  |
| --- | --- | --- | --- |
| a) Sieve tube | b) Sieve cells | c) Companion cell | d) Both (a) and (b) |

1. In gymnosperm, pollination takes place by :

|  |  |  |  |
| --- | --- | --- | --- |
| a) Wind | b) Water | c) Insects | d) Animals |

1. Male gametophyte in gymnosperm consist \_\_\_\_\_ male gamete

|  |  |  |  |
| --- | --- | --- | --- |
| a) 1 | b) 2 | c) 3 | d) 4 |

1. Evolutionary classification is called :

|  |  |
| --- | --- |
| a) Artificial system | b) Natural system |
| c) Phylogenetic system | d) None of these |

1. An algae rich in protein is :

|  |  |  |  |
| --- | --- | --- | --- |
| a) Spirogyra | b) Ulothrix | c) Oscillatoria | d) Chlorella |

1. The plant body constituting a holdfast, stipe and frond is seen in :

|  |  |  |  |
| --- | --- | --- | --- |
| a) Volvax | b) Chara | c) Laminaria | d) Chlamydomonas |

1. A gelatinous covering outside the cellulosic cell wall is observed in the members belonging to brown algae. This gelatinous coating is called as :

|  |  |  |  |
| --- | --- | --- | --- |
| a) Algin | b) Polyalginate | c) Gylcoalgin | d) Mannitol |

1. Which of the following statements with respect to algae are correct?
2. Fusion between one large , non-motile female gamete and a smaller, motile male gamete is termed as oogamous.
3. Fusion of two gametes dissimilar in size are termed as oogamous.
4. Fusion of two gametes similar in size is called ansiogamous.
5. In Chlorophyceae, the major pigments are chlorophyll a and b, and the food is stored in starch.
6. In Rhodophyceae, the major pigments are chlorophyll c and d, and the food is stored in mannitol.

|  |  |  |  |
| --- | --- | --- | --- |
| a) (i) and (v) | b) (iii) and (v) | c) (i) and (ii) | d) (i) and (iv) |

1. A bryophyte plant has chromosome number 9. Chromosome number in spores and Protonema will be :

|  |  |  |  |
| --- | --- | --- | --- |
| a) 9 & 9 | b) 18 & 18 | c) 27 & 18 | d) 9 & 18 |

1. Define cone. [ 1 ]
2. Define Gemma cup. [ 1 ]
3. Name three group of plants that bears archaegonia. [ 1 ]
4. Number of flagella in asexual spore of brown algae is : [ 1 ]
5. Distinguished between the classification of Bryophytes. [ 2 ]
6. Write the general characters of Gymnosperms. [ 2 ]
7. Distinguished between bryophytes and pteridophytes. [ 2 ]
8. Differentiate between Cycas and Pinus. [ 2 ]
9. Write 3 economic importance of Bryophytes. [ 2 ]
10. Draw and explain the life cycle of Pteridophytes. [ 3 ]
11. Differentiate between Red , Green and Brown algae [ 3 ]