EXERCISE-I

KINGDOM PLANTAE – ALGAE

1. Carrageenin is a gel like phycocolloid used in bakery, jams, jellies, soups and clarification of beer and obtained from a red alga which is

| (A) Chondrus | (B) Porphyra |
|----------------|--------------|
| (C) Gracilaria | (D) Ulva |

2. A parasitic colourless red alga living on other red algae is

| (A) Harveyella | (B) Batrachospermum |
|----------------|---------------------|
| (C) Porphyra | (D) Cephaleuros |

- 3. Chlorellin is obtained from chlorella. It is(A) Protein(B) Antibiotic
 - (C) Fat rich compound
 - (D) Anti cancer
- 4. Sargasso sea in North Atlantic ocean is rich in
 (A) Sargassum
 (B) Kelps
 (C) Fucus
 (D) Laminaria
- 5. Irish moss is
 - (A) Chondrus (a red alga)(B) Ulva (green alga)(C) Porphyra (red alga)(D) Gelidium (red alga)
- 6. Largest alga is a brown alga of 60mt. length. It is
 (A) Macrocystis
 (B) Nereocystis
 (C) Laminaria
 (D) Kelp
- 7. Two heterokont unequal flagella are attached laterally in

| (A) Green algae | (B) Red algae |
|-----------------|---------------|
| (C) Brown algae | (D) Diatoms |

- 8. Flagella are totally absent in
 - (A) Kelps
 - (B) Sea weeds
 - (C) Red algae and blue green algae
 - (D) Green algae and brown algae

9. Trumpet hyphae having sieved septa like sieve tubes of phloem are found in

| (A) Kelps | (B) All brown algae |
|-------------------|---------------------|
| (C) All red algae | (D) Marine algae |

10. Alga that shows isomorphic type of alternation of generation is

| (A) Ectocarpus | (B) Volvox |
|-------------------|------------------|
| (C) Chlamydomonas | (D) All of these |

11. Phycocolloids are mucopolysaccharides in cell wall of sea weeds. A phycocolloid, used in food, textile, icecreams, medicines, surgical threads obtained from kelps is.

| (A)Alginic acid | (B) Funori |
|-----------------|-----------------|
| (C) Agar | (D) Carrageenin |

- Food reserve in Rhodophyta (red algae) is(A) Floridean starch(B) Laminarian starch
 - (C) Animal starch
 - (D) Cyanophycean starch
- 13. In red algae, sex organs are
 (A) Spermatangium as male and carpogonium with trichogyne as female organ
 (B) Antheridium as male and carpogonium as female organ

(C) Archegonium as female and spermatogonium as male organ

(D) Oogonium as female and sporogonium as male organ

Main pigment in phaeophyceae (Brown algae) is
(A) Phycocyanin
(B) Phycoerythrin
(C) Fucoxanthin
(D) Chlorophyll b

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|-----|--|--------------------------------|-------------------------------------|---|-----------------------------|--|
| 15. | Isogamy involves | | | | ave a capacity to change | |
| | (A) Fusion of two morphologically similar gametes | | | their colour in relation to the wavelength of the | | |
| | (B) Fusion of two mo | rphologically similar but | | (A) Gaidukov phenor | his change is described as | |
| | physiologically differe | nt gametes | | (B) Fluorescence | | |
| | (C) Fusion of two ga | metes produced by same | | (C) Phosphorescence | | |
| | gametangium | | | (D) Bioluminescence | | |
| | (D) Fusion of two diss | imilar motile gametes. | | | | |
| 16 | I anaast a callular anaa | | 23. | - | bught to have been evolved | |
| 16. | called umbrella plant i | n, marine alga, popularily | | from green algae through | • | |
| | _ | | | (A) Volvicine line | (B) Coccoid line | |
| | (A) Ulva (C) Spirogyra | (B) Acetabularia (D) Volvox | | (C) Tetrasporine line | (D) None of these | |
| | (C) Spirogyra | (D) volvox | 24. | The flagella in green | algae are mostly apical in | |
| 17. | Algae float in water du | rring light and sink at night | | position and | | |
| | because | | | (A) Isokont | | |
| | (A) They require light | in day for photosynthesis | | (B) Heterokont | | |
| | (B) They accumulate | food in night & get heavy | | (C) Tinsel type | | |
| | (C) Become buoyant | in light due to attachment | | (D) Whiplash and tins | sel both type | |
| | of oxygen bubbles | | 25 | Mast of filementon | | |
| | (D) Become light due | to consumption of Food. | 25. | 5. Most of filamentous green algae su unfavourable condition by | | |
| 18. | Maximum photosynth | - | | (A) Zoospore | (B) Zygospore | |
| | (A) Sea algae | (B) Fresh water algae | | (C) Zygote | (D) Hypnospore | |
| | (C) Terrestrial algae | (D) Land plants | 26. | Age of Algae / The pe | riod of algae in Geological | |
| 19. | Space algae rich in pr | otein (50%) vitamin A,E. | | time scale is | | |
| | C, which can be possi | bly used in space flights is | | (A) Ordovician | (B) Silurian | |
| | (A) Chlorella | (B) Scenedesmus | | (C) Precambrian | (D) Jurassic | |
| | (C) Chlamydomonas | (D) Spirulina | 27. | Who was the first so | ientist to delimit algae as | |
| 20. | All algae possess | | 21. | Known to us at prese | • | |
| | (A) Chl a and b | | | (A) De jussieu | (B) Linnaeus | |
| | (B) Chl a, carotenes a | nd phycobilins | | (C) Theophrastus | (D) M.O.P. Liyenger | |
| | (C) Chl b and carotenes | | • • | | | |
| | (D) Chl a and caroten | | 28. Non-flowering plants are | | | |
| | | | | (A) dicots | (B) Monocots | |
| 21. | U | emale gametangium of | | (C) Phanerogams | (D) Cryptogams | |
| | thallophytes. It differs | - | 29. | Choose the correct st | atement. | |
| | (A) being smaller in size(B) lacking neck | | | (A) Algae occupy 3/4 of the surface of earth. | | |
| | | | | • • • | out of 90% of total | |
| | (C) lacking sterile jack | | photosynthesis | | | |
| | (D) Producing one or | more egg | | (C) Algae are plants as they possess cell | | |
| | | | | (D) All of the above. | | |

| 30. | Heterotrichous habit essential for origin of Land | d KINGDOM PLANTAE – BRYOPHYT | | -BRYOPHYTES | |
|-------|--|------------------------------|---|--|--|
| | plants refers to presence of | | | | |
| | (A) Two types of sexes | 36. | Calyptra is formed from | n | |
| | (B) Two types of flagella | | (A) Spore | (B) Oospore | |
| | (C) Trichomes | | (C) Venter | (D)Archegonium | |
| | (D)Erect and prostrate branches | 37. | Which statement about | t bryophytes is not correct | |
| 31. | The ancestor of angiosperms is supposed to be | | (A) Absence of vascular tissue(B) Heterospory | | |
| | (A) Chara | | | | |
| | (B) Vaucheria | | (C) Pigments similar to green algae | | |
| | (C) Volvox | | (D) Body gametophyti | с | |
| | (D) Chlorella | 38. | | pryophytes are similar to | |
| 32. V | Which green algae shows heterotrichous habit | | pteridophytes | | |
| | and may have given rise to terrestrial (land) habit | | • | nd reproductive organs | |
| | (A) Chlamydomonas | | (B) Archegonium like | | |
| | (B) Vaucheria | | (C) Antherozoid flagellate (D) All the above | | |
| | (C) Fritschiella | | | | |
| | (D) Ulothrix | 39. | Which of the following | part is fruiting | |
| 33. | Classification of Algae into 11 classes was made by Fritsch on the basis of flagellation, pigmentation | | (A) Foot (C) Capsule | (B) Seta(D) All the above | |
| | and type of reserve food. Out of this, the main criteria used in algal classification / grouping of algae is | 40. | Sporophytic structure in bryophytes is found to be | | |
| | (A) Chemical composition of cell wall (B) Type of pigmentation | | (A) Totally dependent on gametophyte(B) Partially dependent on gametophyte | | |
| | (C) Nature of food storage | | (C) Any of above | | |
| | (D) Shape and colony formation | | (D) Independent from gametophyte | | |
| ~ ~ | | 41. | What is meant by apos | spory | |
| 34. | Green algae are ancestors of angiosperms/land plants because | | (A) Formation of thallu | s without spore formation | |
| | (A) Both have celullose in cell wall | | (B) Formation of thallus without gamete formation | | |
| | (B) Both have starch as reserve food | | (C) Formation of gametophyte by any cell of the | | |
| | (C) Both have chlorophyll a and b | | sporophyte without undergoing meiosis | | |
| | (D) All of the above | | (D) Formation of thallus without gametic fertilisation | | |
| 35. | In whittaker classification, algae are included in | | Tertilistation | | |
| | how many kingdoms | 42. | | ructure formed by the | |
| | (A) 3 | | germination of spore from which a typical | | |
| | (B) 2 | | gametophyte develops is called (A) A non-matrix (B) Superconductor | | |
| | (C) 4 | | (A) Apospory (C)Protonema | (B) Sporophyte (D) Prothallus | |
| | (D) All the five kingdom | | | | |

| (A) Eastern Himalayas (B) Western Himalayas (C) Northern Himalayas (D) Southern Himalayas (D) Southern Himalayas (C) Both of above (D) Southern Himalayas (A) Autorophic (B) Saprophytic (C) Parasitic (D) None of these (A) Companion cells (B) Vessels (C) Tracheids (D) Vascular tissue (A) Companion cells (B) Vessels (C) Tracheids (D) Vascular tissue (A) Root (B) Haustoria (C) Rhizoid (D) All the above 55. What is not found in foliose bryophytes (A) Stem (B) Leaves (C) Roots (D) All the above 56. In which homospory is found (A) Setam (B) Leaves (C) Roots (D) All the above 57. Sporocarp is found in (A) Andraea (B) Funaria (C) Sphagnum (D) Polytrichum 58. The type of stele in which the xylem is hollow or stele | 43. | What is gemma | | 52. | Which types of rhizo | ids are found in mosses |
|---|-----|--|--------------------------|-----|------------------------|----------------------------|
| (C) Vegetative reproductive structure (D) Sexual reproductive structure (D) Sexual reproductive structure (D) Sexual reproductive structure (D) Sexual reproductive structure (D) None of the above (D) None of the above (D) None of the above (D) None of the above (D) Southern Himalayas (C) Northern Himalayas (D) Southern Himalayas (D) None of these (A) Autotrophic (C) Parasitic (D) None of these (D) None of these (D) None of these (D) None of these (D) None of the above (C) Root (D) All the above (D) All the above (C) Sphagnum (D) Polytrichum (C) Marsilea (D) All the above (D) All the above (C) Sphagnum (D) Polytrichum (C) Marsilea (D) All the above (D) All the above (D) All the above (C) Sphagnum (D) Polytrichum (C) Marsilea (D) All the above (D) All | | (A) A bryophyte | | | (A) Unicellular, smoo | oth walled, unbranched |
| (D) Sexual reproductive structure (A) Sexual reproductive structure (A) Companion cells (B) Vessels (C) Parasitic (D) None of these (A) Autotrophic (B) Saprophytic (C) Parasitic (D) None of these (A) Autotrophic (B) Saprophytic (C) Parasitic (D) None of these (A) Autotrophic (B) Saprophytic (C) Parasitic (D) None of these (A) Autotrophic (B) Saprophytic (C) Parasitic (D) None of these (A) Companion cells (B) Vessels (C) Tracheids (D) Vascular tissues (A) Companion cells (B) Vessels (C) Tracheids (D) Vascular tissues (C) Ricoid (D) All the above 47. What are the absorptive organs of bryophytes (A) Root (B) Haustoria (C) Roots (D) All the above 48. What is not found in foliose bryophytes (A) Actarea (B) Leaves (C) Roots (D) All the above 50. The reproductive organs in bryophyta are (A) Unicellular without sterile jacket (D) Multicellular without sterile jacket (D) Multicellular without sterile jacket (D) Multicellular without sterile jacket (A) Unicellular without sterile jacket (D) Multicellular without sterile jacket (A) Unicellular without sterile jacket (B) Branched (B) Branched (C) Dichotomously branched 50. The reproductive organs in bryophytes are generally (A) Unicellular without sterile jacket <l< td=""><td></td><td>(B) Asexual reproduct</td><td>ive structure</td><td></td><td>(B) Unicellular, tuber</td><td>culated, unbranched</td></l<> | | (B) Asexual reproduct | ive structure | | (B) Unicellular, tuber | culated, unbranched |
| 44. Which region is called Gold mines of bryophytes (A) Eastern Himalayas (B) Western Himalayas (C) Northern Himalayas (C) Parasitic (D) None of these 45. What is the nature of Buxbaumia aphylla (A) Autotrophic (B) Saprophytic (C) Parasitic (D) None of these 46. These are not found in vascular tissues of bryophytes (A) Companion cells (B) Vessels (C) Tracheids (D) Vascular tissue (D) All the above 47. What are the absorptive organs of bryophytes (A) Root (B) Haustoria (C) Roots (D) All the above 48. What is not found in foliose bryophytes (A) Andraea (B) Leaves (C) Roots (D) All the above 49. Which moss is used for making seed beds, for grafting and packaging etc (A) Andraea (B) Fuania (C) Marsilea (D) All the above 58. The type of stele in which the xylem is hollow or has pith is called (A) Stern thereil jacket (D) Multicellular with sterile jacket (D) Multicellular with sterile jacket (D) Multicellular without sterile jacket (D) Multicellular witho | | (C) Vegetative reproductive structure | | | (C) Multicellular w | ith oblique septa, smooth |
| 44. Winch region is cance (continues of byophytes (A) Eastern Himalayas (B) Western Himalayas (C) Northern Himalayas (C) Southern Himalayas (C) Northern Himalayas (C) Parasitic (D) None of these (D) None of these (D) None of these (D) None of these bryophytes is aquatic (A) Root (B) Haustoria (C) Roots (D) All the above 48. What is not found in foliose bryophytes (A) Andraea (B) Funaria (C) Shagnum (D) Polytrichum 50. The reproductive organs in bryophyta are (A) Andraea (B) Funaria (C) Miceilular with sterile jacket (D) Multicellular with sterile jacket (A) Unbranched (B) Branched (C) Dichotomously branched (D) Chotomously branched (A) Pretis (B) Pretidium | | (D) Sexual reproductive structure | | | walled, branched | |
| (B) Western Himalayas (A) Liverwort (B) Moss (C) Northern Himalayas (A) Liverwort (B) Moss (D) Southern Himalayas (A) Liverwort (B) Moss (D) Southern Himalayas (A) Liverwort (B) Moss (C) Northern Himalayas (C) Both of above (D) Foliose liverwort (A) Autotrophic (B) Saprophytic (C) Both of above (D) Foliose liverwort (A) Autotrophic (B) Saprophytic (C) Root but unbranched (D) None of these (A) Companion cells (B) Vessels (C) Riccia fluitans (D) All the above (A) Root (B) Haustoria (D) All the above (D) All the above (A) Stem (B) Haustoria (D) All the above (D) All the above (A) Stem (B) Leaves (D) All the above (C) Roots (D) All the above (A) Andraea (B) Funaria (C) Marsilea (D) All the above (D) Multicellular without sterile jacket (D) Multicellular without sterile jacket (D) Multicellular without sterile jacket (D) Multicellular without sterile jacket (D) Multicellular without sterile jacket (A) Protostele (B) Siphonostele (C) Dichotomously branched (A) | 44. | Which region is called | Gold mines of bryophytes | | (D) None of the abo | ve |
| (C) Northern Himalayas (D) Southern Himalayas (C) Both of above (D) Foliose liverwort (D) Foliose liverwort (D) Foliose liverwort (C) Both of above (D) Foliose liverwort (A) Autotrophic (B) Saprophytic (C) Parasitic (D) None of these (A) Companion cells (B) Vessels (C) Tracheids (D) Vascular tissues of bryophytes (A) Root (B) Haustoria (C) Rhizoid (D) All the above 47. What are the absorptive organs of bryophytes (A) Root (B) Haustoria (C) Rhizoid (D) All the above 48. What is not found in foliose bryophytes (A) Stem (B) Leaves (C) Roots (D) All the above 54. Rhizoids are (A) Companion cells (B) Vessels (C) Rizoid (D) All the above 55. Which of these bryophytes is aquatic (A) Riccia fluitans (C) Rizoid (D) All the above 56. In which homospory is found (A) Andraea (B) Funaria (C) Shagnum (D) Polytrichum 58. The type of stele in which the xylem is hollow or has pith is called (A) Cuncellular without sterile jacket (D) Multicellular without sterile jacket (A) Urbranched (B) Branched (C) Dichotomously branched (A) Petris (B) Pteridium | | (A) Eastern Himalayas | 8 | 53. | Unicellular unbranch | ed rhizoids are found in |
| (D) Southern Himalayas (A) Autotrophic (B) Saprophytic (C) Parasitic (D) None of these (A) Autotrophic (B) Saprophytic (C) Parasitic (D) None of these (A) Companion cells (B) Vessels (C) Tracheids (D) Vascular tissues of bryophytes (A) Root (B) Haustoria (C) Rhizoid (D) All the above 47. What are the absorptive organs of bryophytes (A) Root (B) Haustoria (C) Rhizoid (D) All the above 48. What is not found in foliose bryophytes (A) Stem (B) Leaves (C) Roots (D) All the above 54. Rhizoids are (A) Structures analogous to roots (B) Riella (C) Rizoid (D) All the above 54. Rhizoids are (A) Companion cells (B) Vessels (C) Tracheids (D) Vascular tissue (C) Rizoid (D) All the above 54. Rhizoids are (A) Companion cells (B) Vessels (C) Root but unbranched (D) None of these bryophytes (A) Root (B) Haustoria (C) Rizoid (D) All the above 54. Rhizoids are (A) Root are (B) Equisetum (C) Roots (D) All the above 54. Which moss is used for making seed beds, for grafting and packaging etc (A) Andraea (B) Funaria (C) Sphagnum (D) Polytrichum 56. In erproductive organs in bryophyta are (A) Unicellular without sterile jacket (D) Multicellular with sterile jacket (A) Unbranched (B) Branched (C) Dichotomously branched 57. Sporocarp is found in fol | | (B) Western Himalaya | S | | (A) Liverwort | (B) Moss |
| 45. What is the nature of Buxbaumia aphylla (A) Autotrophic (B) Saprophytic (C) Parasitic (D) None of these 46. These are not found in vascular tissues of bryophytes (A) Companion cells (B) Vessels (C) Tracheids (D) Vascular tissue 47. What are the absorptive organs of bryophytes (A) Root (B) Haustoria (C) Rhizoid (D) All the above 48. What is not found in foliose bryophytes (A) Stem (B) Leaves (C) Roots (D) All the above 48. What is not found in foliose bryophytes (A) Stem (B) Leaves (C) Roots (D) All the above 49. Which moss is used for making seed beds, for grafting and packaging etc (A) Unicellular without sterile jacket (B) Multicellular without sterile jacket (D) Multicellular without sterile jacket (B) Branched (C) Dichotomously branched 50. The thalli of bryophytes are generally (A) Unbranched (B) Branched (C) Dichotomously branched 60. In which furcate venation is found (A) Pteris 61. The thalli of bryophytes are generally 62. Dichotomously branched 63. The type of stele in which the above 64. Previs (B) Pteridium | | (C) Northern Himalay | as | | (C) Both of above | (D) Foliose liverwort |
| 45. What is the nature of Buxbaumia aphylla (A) Autotrophic (C) Parasitic (D) None of these 46. These are not found in vascular tissues of bryophytes (A) Companion cells (B) Vessels (C) Tracheids (D) Vascular tissue (A) Companion cells (B) Vessels (C) Tracheids (D) Vascular tissue (A) Root (C) Rhizoid (D) All the above 47. What are the absorptive organs of bryophytes (A) Root (C) Rhizoid (D) All the above 48. What is not found in foliose bryophytes (A) Stem (C) Roots (D) All the above 49. Which moss is used for making seed beds, for grafting and packaging etc (A) Andraea (B) Funaria (C) Sphagnum (D) Polytrichum 50. The reproductive organs in bryophyta are (A) Unicellular with sterile jacket (D) Multicellular with sterile jacket (A) Unicellular with sterile jacket (D) Multicellular with sterile jacket (D) Multicellular with sterile jacket (A) Unicellular with sterile jacket (B) Branched (C) Dichotomously branched (C) Dicho | | (D) Southern Himalay | as | 54. | Rhizoids are | |
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| (C) Parasitic (D) None of these (C) Parasitic (D) None of these (C) Parasitic (D) None of these (C) Root but unbranched (D) None of the above (A) Companion cells (B) Vessels (C) Tracheids (D) Vascular tissue (A) Root (B) Haustoria (C) Rhizoid (D) All the above (A) Root (B) Haustoria (C) Rhizoid (D) All the above (C) Root s (D) All the above (C) Sphagnum (D) Polytrichum (C) Sphagnum (D) Polytrichum (C) Unicellular without sterile jacket (C) Unicellular without sterile jacket (D) Multicellular without sterile jacket (C) Unicellular without sterile jacket (D) Multicellular without sterile jacket (D) Multicellular without sterile jacket (C) Unicellular without sterile jacket (D) Multicellular without sterile jacket (D) Multicellular without sterile jacket (D) Multicellular without sterile jacket (A) Protostele (B) Siphonostele (C) Solenostele (D) Dictyostele (A) Unbranched (A) Pteris (B) Pteridium | | | | | | - |
| 46. These are not found in vascular tissues of bryophytes (A) Companion cells (B) Vessels (C) Tracheids (D) Vascular tissue 47. What are the absorptive organs of bryophytes (A) Root (B) Haustoria (C) Rhizoid (D) All the above 48. What is not found in foliose bryophytes (A) Stem (B) Leaves (C) Roots (D) All the above 49. Which moss is used for making seed beds, for grafting and packaging etc (A) Andraea (B) Funaria (C) Sphagnum (D) Polytrichum 50. The reproductive organs in bryophyta are (A) Unicellular without sterile jacket (D) Multicellular with sterile jacket (D) Multicellular with sterile jacket (D) Multicellular with sterile jacket (D) Multicellular without sterile jacket (B) Branched (C) Dichotomously branched 40. The reproductive organs in bryophytes are generally (A) Unbranched (B) Branched (C) Dichotomously branched (C) Dichotomously branched (D) All the above 51. The thalli of bryophytes are generally (C) Dichotomously branched (D) Multicellular with sterile jacket (A) Unbranched (B) Branched (C) Dichotomously branched (D) All the above 53. The type of stele in which the sylem is hollow or has pith is called (A) Protostele (B) Siphonostele (C) Solenostele (D) Dictyostele | | · / I | | | | - |
| bryophytes 55. Which of these bryophytes is aquatic (A) Companion cells (B) Vessels (A) Roci (B) Riella (C) Tracheids (D) Vascular tissue (C) Riccioarpus natams (A) Root (B) Haustoria (D) All the above (C) Rhizoid (D) All the above (C) Riccioarpus natams 48. What is not found in foliose bryophytes (A) Stem (B) Leaves (C) Roots (D) All the above (A) Selaginella (B) Equisetum 49. Which moss is used for making seed beds, for grafting and packaging etc (A) Andraea (B) Funaria (C) Sphagnum (D) Polytrichum (C) Marsilea (D) All the above 50. The reproductive orgams in bryophyta are (A) Unicellular without sterile jacket (A) Siphonostele (B) Solenostele (D) Multicellular with sterile jacket (D) Multicellular with sterile jacket 59. Which is the simplest ard most primitive stele 51. The thalli of bryophytes are generally (A) Unbranched (B) Siphonostele (C) Eustele (D) Any of the above 51. The thalli of bryophytes are generally (A) Protostele (B) Siphonostele (C) Eustele (D) Any of the above | | | | | | |
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| (C) Tracheids (D) Vascular tissue (G) Tracheids (D) Vascular tissue (G) Root (B) Haustoria (C) Rhizoid (D) All the above (G) Rhizoid (D) All the above (G) Roots (D) All the above (G) Marsilea (B) Salvinia (C) Marsilea (D) All the above (G) Unicellular without sterile jacket (D) Multicellular without sterile jacket (D) Multicellular without sterile jacket (G) Multicellular without sterile jacket (G) Multicellular without sterile jacket (A) Protostele (B) Siphonostele (C) Eustele (D) Dictyostele (A) Unbranched (A) Protostele (B) Siphonostele (C) Solenostele (C) Solenostele (C) Solenostele (D) Dictyostele (G) Dichotomously branched (A) Pteris (B) Pteridium | | • • • | (B) Vessels | | • | ji ji cos is aquaite |
| 47. What are the absorptive organs of bryophytes (A) Root (B) Haustoria (C) Rhizoid (D) All the above 48. What is not found in foliose bryophytes (A) Stem (B) Leaves (C) Roots (D) All the above 48. What is not found in foliose bryophytes (A) Stem (B) Leaves (C) Roots (D) All the above 49. Which moss is used for making seed beds, for grafting and packaging etc (A) Andraea (B) Funaria (C) Sphagnum (D) Polytrichum 50. The reproductive organs in bryophyta are (A) Unicellular without sterile jacket (D) Multicellular without sterile jacket (A) Unbranched (B) Branched (C) Dichotomously branched 40. Prevision (B) Prevision (C) Dichotomously branched (A) Prevision (B) Prevision (C) Dichotomously branched (A) Prevision (B) Prevision (C) Dichotomously branched | | | | | | |
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| (C) Rhizoid (D) All the above What is not found in foliose bryophytes (A) Stem (B) Leaves (C) Roots (D) All the above Which moss is used for making seed beds, for grafting and packaging etc (A) Andraea (B) Funaria (C) Sphagnum (D) Polytrichum Whicellular without sterile jacket (B) Multicellular without sterile jacket (C) Unicellular without sterile jacket (D) Multicellular without sterile jacket The thalli of bryophytes are generally (A) Unbranched (B) Branched (C) Dichotomously branched Matsorial (D) All the above KINGDOM PLANTAE – PTERIDOPHYTES KINGDOM PLANTAE – PTERIDOPHYTES In which homospory is found (A) Selaginella (B) Equisetum (C) Marsilea (D) All the above Sporocarp is found in (A) Azolla (B) Salvinia (C) Marsilea (D) All the above Statistical (C) Marsilea (D) All the above The type of stele in which the xylem is hollow or has pith is called (A) Siphonostele (B) Solenostele (C) Eustele (D) Any of the above Multicellular without sterile jacket Mich is the simplest and most primitive stele (A) Protostele (D) Dictyostele In which furcate venation is found (A) Pteris Pteridium | 4/. | | | | · · · · | |
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| (C) Roots (D) All the above (C) Marsilea (D) All the above (C) Sphagnum (D) Polytrichum (D) Polytrichum (C) Marsilea (D) All the above (D) Mutricellular without sterile jacket (D) Mutricellular with sterile jacket (D) Mutricellular with sterile jacket (D) Mutricellular without sterile jacket (D | | · · · | | | (A) Selaginella | (B) Equisetum |
| grafting and packaging etc 57. Sporocarp is found in (A) Andraea (B) Funaria (A) Azolla (B) Salvinia (C) Sphagnum (D) Polytrichum (C) Marsilea (D) All the above 50. The reproductive organs in bryophyta are (A) Unicellular without sterile jacket (B) Multicellular with sterile jacket (C) Unicellular with sterile jacket (D) Multicellular with sterile jacket (D) Multicellular without sterile jacket (A) Siphonostele (B) Solenostele (C) Unicellular without sterile jacket (D) Multicellular without sterile jacket (A) Protostele (B) Siphonostele (A) Unbranched (B) Branched (C) Dichotomously branched 60. In which furcate venation is found (A) Pteris (B) Pteridium | | (C) Roots | (D) All the above | | | · · · • |
| (A) Andraea (B) Funaria (C) Sphagnum (D) Polytrichum (A) Unicellular without sterile jacket (B) Multicellular with sterile jacket (C) Unicellular with sterile jacket (D) Multicellular without sterile jacket (A) Unbranched (B) Branched (C) Dichotomously branched (A) Pteris (B) Pteridium | 49. | Which moss is used for making seed beds, for | | 57 | Sporocarp is found in | |
| (A) Andraea (B) Funaria (C) Sphagnum (D) Polytrichum 50. The reproductive organs in bryophyta are (A) Unicellular without sterile jacket (B)Multicellular with sterile jacket (C) Unicellular with sterile jacket (D) Multicellular without sterile jacket (C) Eustele (D) Any of the above (C) Eustele (D) Any of the above (C) Solenostele (D) Dictyostele (D) | | grafting and packaging | getc | 57. | | |
| 50. The reproductive organs in bryophyta are (A) Unicellular without sterile jacket (B)Multicellular with sterile jacket (C) Unicellular with sterile jacket (D) Multicellular without sterile jacket 51. The thalli of bryophytes are generally (A) Unbranched (B) Branched (C) Dichotomously branched 54. The type of stele in which the xylem is hollow or has pith is called (A) Siphonostele (C) Eustele (D) Any of the above 55. The thalli of bryophytes are generally (A) Unbranched (B) Branched (C) Dichotomously branched 56. The type of stele in which the xylem is hollow or has pith is called (A) Siphonostele (C) Eustele (D) Any of the above 57. The thalli of bryophytes are generally (A) Unbranched (B) Branched (C) Dichotomously branched 58. The type of stele in which the xylem is hollow or has pith is called (A) Siphonostele (C) Eustele (D) Any of the above 59. Which is the simplest and most primitive stele (C) Solenostele (C) Solenostele (D) Dictyostele 60. In which furcate venation is found (A) Pteris (B) Pteridium | | · · · | | | . , | . , |
| 50. The reproductive organs in bryophyta are (A) Unicellular without sterile jacket (B)Multicellular with sterile jacket (C) Unicellular with sterile jacket (D) Multicellular without sterile jacket 51. The thalli of bryophytes are generally (A) Unbranched (B) Branched (C) Dichotomously branched 60. In which furcate venation is found (A) Pteris 61. The thalli of bryophytes are generally (A) Unbranched (A) Unbranched (A) Unbranched (A) Pteris | | (C) Sphagnum | (D) Polytrichum | | | |
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| (B)Multicellular with sterile jacket (C) Unicellular with sterile jacket (D) Multicellular without sterile jacket (E) Solenostele (C) Eustele (D) Any of the above (A) Protostele (B) Siphonostele (C) Solenostele (D) Dictyostele (D) Dictyostele (D) Dictyostele (E) Dichotomously branched (E) Pteridium | | | • • • | | - | |
| (C) Unicellular with sterile jacket (D) Multicellular without sterile jacket 59. Which is the simplest and most primitive stele (A) Unbranched (B) Branched (C) Dichotomously branched (D) Dictyostele (E) Dichotomously branched (E) Dichotomously branc | | | | | · / _ | |
| 51. The thalli of bryophytes are generally (A) Unbranched (B) Branched (C) Dichotomously branched (A) Protostele (B) Siphonostele (C) Solenostele (D) Dictyostele (A) Protostele (B) Siphonostele (C) Solenostele (D) Dictyostele (A) Protostele (B) Siphonostele (C) Solenostele (D) Dictyostele | | (C) Unicellular with sterile jacket | | | (C) Eustele | (D) Any of the above |
| S1.The thain of bryophytes are generally (A) Unbranched (B) Branched (C) Dichotomously branched(C) Solenostele (D) Dictyostele (D) Dictyostele (D) Dictyostele (B) Pteridium60.In which furcate venation is found (A) Pteris(B) Branched (C) Dichotomously branched60. | | (D) Multicellular without sterile jacket | | 59. | Which is the simples | t and most primitive stele |
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| (B) Branched60.In which furcate venation is found(C) Dichotomously branched(A) Pteris(B) Pteridium | | | | | (C) Solenostele | (D) Dictyostele |
| (C) Dichotomously branched (A) Pteris (B) Pteridium | | | | 60. | In which furcate vena | tion is found |
| | | | anched | | (A) Pteris | (B) Pteridium |
| | | • | | | | · / |

| | | | | | Plant Kingdom | |
|-----|---|---|-----|---|-------------------------------|--|
| 61. | Which of these is megaphillous plant | | 69. | Which of these is a liv | <u> </u> | |
| | (A) Lycopodium | (B) Selaginella | | (A) Rhynia | (B) Horneophyton | |
| | (C) Equisetum | (D) Ferns | | (C) Psilotum | (D) None of these | |
| 62. | | ation, its first division is neck, the polarity is called | 70. | Megasporophyll of j to angiospermic | pteridophytes is equivalent | |
| | (A) vertical | (B) Transverse | | (A) Carpel | (B) Ovule | |
| | (C) Lateral | (D) Exoscopic | | (C) Gynoecium | (D) All the above | |
| 63. | ••• | opment, if the apical pole is | 71. | Individual sporangia | fused laterally are called | |
| | | ne venter, the polarity is | | (A) Sorus | (B) Synsorus | |
| | (A) Exoscopic | (B) Endoscopic | | (C) Synangium | (D) Psilotum | |
| | (C) Basal | (D) Lateral | 72. | Which character of p | teridopohytes is not similar | |
| 64. | | ation, if the apical pole is | | to bryophytes | | |
| | | neck, the polarity is called | | (A) Water requireme | | |
| | (A) Exoscopic (C) Basal | (B) Endoscopic (D) Lateral | | | porophyte on gametophyte | |
| | | | | (C) Heterospory(D) None of above | | |
| 65. | | herozoids of pteridophytes | | (D) None of above | | |
| | is | (D) Chamatastia | 73. | • • | bell, Pteridphytes evolved | |
| | (A) Chemonasty(C) Both (A) & (B) | (B) Chemotactic(D) None of the above | | from | | |
| | | | | (A) Bryophytes | (B)Algae | |
| 66. | 01 | t at the mouth of neck of | | (C) Gymnosperms | (D) Independently | |
| | archegonium in pterid (A) Malic acid | (B) Fumaric acid | 74. | Which character of p | pteridophytes is not similar | |
| | (C) None of above | (B) Furnance actor (D) Both (A) or (B) | | to Gymnosperms | | |
| | | | | | entiated into roots, stem and | |
| 67. | 01 | at the mouth of neck of lophytes is formed from | | leaves | | |
| | | | | (B) Heterosporous | | |
| | (A) Disintegration of neck canal cells(B) Disintegration of neck canal cells and venter canal cell | | | (C) vascular system developed | | |
| | | | | (D) None of the above | | |
| | (C) Disintegration of | cap cells present at top of | 75. | The sporophylls in st | robilus are | |
| | neck | | (4 | | (A) Leaf like | |
| | (D) All the above | | | (B) Partially enlarged | lleaf | |
| 68. | How many flagella are found in antherozoid of pteridophytes | | | (C) Both (A)and (B) (D) Fully enlarged le | | |
| | (A) Two | | 76. | Which plant has sym | podial branches | |
| | (B) Many | | | (A) Pteris | (B) Pteridium | |
| | (C) Two in some, man (D) Generally many | ny in others | | (C) Equisetum | (D) Marsilea | |

| | | | | | Plant Kinguom |
|-----|--|-------------------------------|------------|---|---------------------------------|
| 77. | In ferns, sporangia for | m | 86. | Which of the following | g found sporophyll |
| | (A) Sporocarp | (B) Sorus | | (A) Selaginella | (B) Lycopodium |
| | (C) Synangium | (D) Cone | | (C) Equisetum | (D) Pteridium |
| 78. | The leaf bearing spor called | rangia in pteridophytes is | 87. | Megaphyllous leaves f | |
| | (A) Sporangiophore | (B) Sporophyll | | (A) Filicophyta (C) Lycopsida | (B)Arthrophyta (D)Psilophyta |
| | (C) Fronds | (D) from Bulbil | | (C) Lycopsida | (D) F shophyta |
| 79. | Reproduction in walk | ing fern mainly occurs | 88. | Which is called ressure | ection plant |
| | (A) From tuber | (B) From leaf tip | | (A) Selaginella lepide | ophylla |
| | (C) From spore | (D) Bulbil | | (B) Osmunda | |
| 80. | From where, the bran pteridopohytes | nches arise in stem among | | (C) <i>Equisetum arben</i> (D) All the above | Se |
| | (A) From leaf axil | (B) from Extra axillary | 89. | Selaginella is called as | |
| | (C) Both of above | (D) None of these | | (A) Little club moss | (B) Spike moss |
| 81. | Which part in pte | ridophytes is called a | | (C) Both of above | (D) Isoetes |
| | conservation organ | I J | 90. | Which one is called as | horse tail |
| | (A) Root | (B) Stem | 200 | (A) Equisetum | (B) Pteridium |
| | (C) Sporangium | (D) Embryo | | (C) Selaginella | (D) Isoetes |
| 82. | Which type of branchin (A) Monopodial (B) Dichotomous brar | ng is found in pteridophytes | 91. | Bracken fern and sun for | fern are alternative names |
| | (C) Sometimes sympo | - | | (A) Pteris | (B) Pteridium |
| | (D) All the above | | | (C) Dryopteris | (D) None of these |
| 83. | Among pteridophytes, | , in which plants vessels are | 92. | Which one is called as | walking fern |
| | present | | | (A)Adiantum | (B) Pteris |
| | (A) Selaginella rupe. | stris | | (C) Dryopteris | (D) None of these |
| | (B) Pteridium equilinum | | 93. | Whose name is quill w | vort |
| | (C) Both of above | | <i>)</i> . | (A) Anthoceros | (B) Pteris |
| | (D) Isoetes | | | (C) Isoetes | (D) Utricularia |
| 84. | Which group of Pteric | lophyta, does not have true | | | |
| | roots | | 94. | Which is called as "flo | wering fern" |
| | (A) Psilophyta | (B) Lycophyta | | (A) Osmunda regalis | (B) Isoetes |
| | (C) Arthrophyta | (D) Filicophyta | | (C) Marsilea | (D) Equisetum |
| 85. | Stem of which of thes silica on it | se shows roughness due to | 95. | Which of these is tree | |
| | (A) Selaginella | (B) Lycopodium | | (A) Cyathia | (B)Alsophila |
| | (C) Equisetum | (D) Pteridium | | (C) Both of above | (D) Ophioglossum |
| | | | | | |

| | | | | | Plant Kingdom |
|-------------------------------|---|--|------|---|--|
| KINGDOM PLANTAE – GYMNOSPERMS | | | 105. | When parenchyma is abundant in wood it is called | |
| | | | | (A) Pycnoxylic | (B) Manoxylic |
| 96. | What is the speciality | • | | (C) Less xylic | (D) Mesarch |
| | (A) Largest ovule of the plant kingdom(B) Largest egg of the plant kingdom | | 106. | What is found in most gymnospermous leaves or leaftlets for lateral transport | |
| | (C) Largest antherozo(D) All the above | id of plant kingdom | | (A) Mid rib (C) Transfusion tissue | (B) Lateral rib (D) Vascular tissue |
| 97. | The longest archegoinal neck in gymnosperms is found in | | 107. | y Cy I | |
| | (A) Cycas | | | (A) Vessels | (B) Tracheids |
| | (B) Pinus | | | (C) Sieve tubes | (D) Companion cells |
| | (C) Ephedra | | 108. | 01 | osperms were the main |
| | (D) Equal in all the ab | ove | | vegetation | |
| | | | | (A) Palaeozoic | |
| 98. | Which is called as the | Christmas tree | | (B) Mesozoic | |
| | (A) Thuja | (B) Araucaria excelsa | | (C) Coenozoic | |
| | (C) Juniperus | (D) Pinus roxburghii | | (D) Jurassic & Cretace | eous |
| 99. | Which plant is called maiden hair tree | | 109. | Which is called as livin | g fossil |
| | (A)Adiantum | (B) Pteris | | (A) Ginkgo | (B) Cycas |
| | (C) Ginkgo biloba | (D) All the abvve | | (C) Metasequoia | (D) All the above |
| 100. | From which gymnosp | From which gymnosperm sago is prepared | | Microspores in gymnosperms germinate | |
| | (A) Cycas | (B) Pinus | | (A) Precocious | |
| | (C) Metroxylon | (D) All the above | | (B) After their release | |
| 101. | Canada balsam is obtained from | | | (C) In pollen chamber of ovule(D) On micropyle | |
| | (A)Abies | (B) Cedrus | | (D) On micropyle | |
| | (C) Pinus | (D) All the above | 111. | At the time of pollen li of pollen grains in Gyn | beration, what is the stage mosperms |
| 102. | It is found in gymnosp | erm | | (A) 3-celled | (B) 4-celled |
| | (A) Homospory | (B) Heterospory | | (C) 5-celled | (D) Any of the above |
| | (C) Both (A) & (B) | (D) Apospory | 112. | What is meant by pro | ecoious development of |
| 103. | Gymnosperms are generally | | | pollen grains | |
| | (A) Dioecious | (B) Monoecious | | | ollen grain starts before |
| | (C) Gametophytes | (D) Homothallic | | transfer to ovule | 11 |
| 104. | The wood with dense xylem and reduced | | | (B) Development of j sporangium | pollen grain starts in the |
| | parenchyma in xylem is called | | | (C) Development of po | ollen grain starts in pollen |
| | (A) Pycnoxylic | (B) Monoxylic | | chamber | |
| | (C) Diarch | (D) Monarch | | (D) None of the above | 2 |
| | | | | | |

| 112 | | 11 | T lant Kingdom | |
|------|---|----------------|--|--|
| 113. | The pollen grain at the time of release is actually | | KINGDOM PLANTAE ANGIOSPERMS | |
| | (A) Male gametophyte(B) Partially developed male gametophyte(C) Microspore(D) Male sporophyte | 121. | through fungi (mycotrophic humus plant) (A) <i>Neottia</i> (B) <i>Monotropa</i> | |
| 114. | Which type of megaspore tetrad is found in gymnosperms | | (C) <i>Corallorhiza</i> (D) All of these Man made angiosperm is | |
| | (A) Linear(B) Tetrahedral(C) Isobilateral(D) All the above | | (A) Barley(B) Maize (corn)(C) Triticale(D) Potato | |
| 115. | female gametophyte (A) One towards the micropylar end | | Smallest angiosperm with smallest flower is (A) <i>Wolffia</i> is smallest angiosperm and <i>lemna</i> has smallest flower | |
| | (B) One opposite to the micropylar end(C) One in the middle of the two ends(D) Any of the above | | (B) <i>Lemna</i> is smallest angisoperm but <i>Wolffia</i> has smallest flowers | |
| 116. | (D) Any of the above What is the speciality of gymnosperm seed (A) Dormancy (B) Presence of endosperm (C) Presence of three generations in seed (D) Presence of single seed coat on seed | | (C) <i>Lemna</i> is smallest angisoperm and <i>Zostera</i> has smallest flower | |
| | | | (D) None of the above statements is correct. | |
| | | | Which of the following is classified on the basis of number of cotyledons | |
| 117. | It is found in Pinus | | (A) Gymnosperms(B) Embryophytes(C) Angiosperms(D) Tracheophytes | |
| | (A) True polyembryony (B) Cleveage polyembryony (C) both (A) & (B) (D) None of the above | | The stamen in angiosperms is homologous to which part in gymnosperm and pteridophytes (A) Microsporangium | |
| 118. | True polyembryony is found in(A) Cycas(B) Pinus(C) Both (A) & (B)(D) Any of the above | ; | (B) MIcrosporophyll(C) Megasporophyll(D) Male gametophyte | |
| 119. | How many cotyledons are found gymnospermous embry (A) Two (B) Many (C) Both (A) & (B) (D) One | in 126. | The megasporophyll of vascular plants is analogous to which structure in angiosperms(A) Stamen(B) Ovule(C) Carpel/ovary(D) Leaf | |
| 120. | How many neck canal cells are there in the neck of archegonia in gymnosperms (A) Two (B) One, binucleate (C) One to five (D) Neck canal cells absent | | A structure absent in Angiosperms is (A) Archegonium (B) Pistil (C) Microgametophyte (D) Megagametophyte | |

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| 128. | A rootless aquatic insectivorous plant that traps | 134. | Santalum album (sandal wood tree) is |
| | water insects by its leaf bladders | | (A) Partial stem parasite |
| | (A) Drosera (B) Utricularia | | (B) Partial root parasite |
| | (C) Nepenthes (D) Dionaea | | (C) Total stem parasite |
| 129. | Monocots are characterised by | | (D) Total root parasite |
| | (A) Fibrous root system, parallel venation, trimerous flower, two lateral cotyledons and eustele (parallel vascular bundles) (B) Fibrous root system, parallel venation, trimerous flower, one cotyledon and atactostele (scattered vascular bundles) (C) Fibrous root system, parallel venation, pentamerous flower one cotyledon in embryo | | Read statement A to E regarding pteridophytes & find out how many is/are correct statement |
| | | | (1) Pteridophytes are popularly knwon as botanical snakes |
| | | | (2) Pteridophytes are vascular cryptogams |
| | | | (3) some pteridophytes are found in xerophytic condtion ex. <i>Selaginella lepidophylla</i> |
| | | | (4) vessels are usually present in xylem. |
| | and atactostele(D) Taproot system, parallel venation, trimerous | | (5) companion cells and sieve tubes are absent in phloem |
| | flowers, one cotyledon and eustele. | | (A) two (B) three |
| 130. | Biggest flower belongs to a Angiospermic plant which is | | (C) four (D) all are correct |
| | (A) Partial stem parasite | 136. | Read statement A to D & select wrong statement |
| | (B) Partial root parasite(C) Total stem parasite | | (1) The pteridophytes include horse tails & fern |
| | | | (2) Pteridophytes are the first terrestrial plants to |
| | (D) Total root parasite | | possess vascular tissues xylem & phloem. |
| | | | (3) In Bryophytes the dominant phase in the life cycle is the sporophytic plant body. |
| 131. | Insectivorous plants are adapted to | | (4) In pteridophytes, the main plant body is a |
| | (A) Soil deficient in sugars(B) Soil deficient in nitrogen compounds | | gometophyte |
| | (C) Soil deficient in trace elements | | (A) only B (B) ony A & C |
| | (D) Soil is marshy | | (C) only C & D (D) only B & D |
| 132. | Smallest angiospermic dicot parasite is | | The leaves in pteridophytes are small |
| | (A)Arceuthobium(B)Wolffia(C)Cassytha(D)Rafflesia | | (microphylls) as in(i)&large(macrophylls)asin(ii)i & ii are respectively. |
| 133. | Sago of commerce is obtained from | | (A) (i) Fern, (ii) <i>selaginella</i> |
| | (A) Calamus ritung | | (B) (i) Selaginella (ii) fern |
| | (B) Metroxylon rumphii(C) Areca catechu | | (C) (i) <i>Pteridium</i> (ii) <i>Equisetum</i> |
| | | | |
| | (D) Phoenix dactylifera | | (D) (i) Lycopodium (ii) Equisetum |
| | | | |

138. Read statement A to D & find out how many is/ **139.** are incorrect statement

(1) In majority of the pteridophytes all the spores are of similar kinds.

(2) Genera like selaginella & salvina produce two kind of spore.

(3) The development of the zygote in to young embryos take place within the female gametophytes. This event is a precursor to the seed habit.

(4) Azolla is an aquatic fern that is used as biofertilizer due to presence of nitrogen fixing cyanobacteria. Anabaena in its leaves

(A) zero

(B) one

(C) two

(D) three

Roots in some genera of gymnosperm have fungal association in the form of mycorrhiza ____(i)____wihle in some others ___(ii)____ samll specialised roots called coralloid roots are associated with N_2 fixing cyanobacteria. The stem are unbranched ___(iii)____ or branched ____(iv)____in this question (i), (ii), (iii) & (iv) are respectively.

(A) (i) pinus, (ii) cycas, (iii) cycas (iv) pinus

- (B) (i) cycas (ii) pinus (iii) pinus (iv) cycas
- (C) (i) pinus (ii) cycas (iii) pinus (iv) cycas
- (D) (i) cycas (ii) pinus (iii) cycas (iv) pinus
- 140. Which is/are wrong regarding gymnosperms

(1) Heterosporous

(2) Produce haploid microspore & megaspore

(3) Two kind of spore are produced within sporangia that are borne on sporophyll

(4) The microspores develop into a male gametophytic generation, which is highly reduced.

| (A) only A & D | (B) only B & D |
|----------------|----------------|
| (C) only B & C | (D) none |