



BIPC

BOTANY

PLANT KINGDOM

WORK SHEET - 2

- Find the wrong statement
 - vegetative characters are more affected by environment
 - Artificial systems of classification give equal weightage to both vegetative and sexual characters
 - system given by Linnaeus is mainly based on androecium
 - Bentham and Hooker proposed phylogenetic system of classification
- Chlamydomonas is not characterised by
 - Isogamy
 - Anisogamy
 - Zoospores
 - Chlorophyll a and c
- Which is different from others based on ploidy
 - embryo
 - Protonema
 - Prothallus
 - Gametophore
- Plant without gametangia is
 - Cycas
 - Pteris
 - Ficus
 - Funaria
- Chl- b is found in
 - Chlamydomonas, Riccia
 - Chlamydomonas, Riccia, Pteris
 - Chlamydomonas, Riccia, Pteris & Cycas
 - Chlamydomonas, Riccia, Pteris, Cycas and Mangifera
- Leafy gametophyte is found in
 - Funaria
 - Dryopteris
 - Ephedra
 - Cassia
- Find the correct statement
 - Vascular tissues are absent in gametophytes of all plants
 - Vascular tissues are present in sporophytes of all plants
 - Pteridophytes exhibit haplodiplontic life cycle with dominant gametophyte
 - Sporophyte of all bryophytes is completely dependent on gametophytes for organic and inorganic nutrients
- In which group all plants exhibit xerophytic adaptations?
 - Dicots
 - Pteridophytes
 - Monocots
 - Gymnosperms
- Find the correct match

List - I		List - II			
A) Double fertilization		I) Bryophytes			
B) Naked ovules		II) Algae			
C) Origin of seed habit		III) Gymnosperms			
D) Dependent sporophyte		IV) Angiosperms			
E) Unicellular gametangia		V) Pteridophytes			
	A	B	C	D	E
1) IV	V	I	II	III	
2) V	IV	III	I	II	
3) IV	III	V	I	II	
4) I	IV	V	II	III	
- Gametophytes are always dioecious in
 - Angiosperms only
 - Gymnosperms & Angiosperms
 - Gymnosperms, Angiosperms & Pteridophytes
 - Bryophytes & Pteridophytes
- First tracheophytes are not characterised by
 - Dominant sporophyte
 - Siphonogamy
 - independent generations
 - Haplodiplontic life cycle
- Plant with needle like leaves and winged pollen grains
 - Cycas
 - Pinus
 - Gnetum
 - Ephedra

13. Zoospores are not found in
 1) Algae 2) Bryophytes
 3) Fungi 4) Bacteria
14. Find the correct statement
 1) Herbs, shrubs & trees are found in gymnosperms
 2) First cell of embryosac of angiosperm is megaspore mother cell
 3) First cell of endosperm of gymnosperms is megaspore
 4) Protonema is found in all bryophytes
15. Oogamy is found in
 A) Red algae B) Bryophytes
 C) Fucus D) Pteridophytes
 E) Gymnosperms F) Angiosperms
 G) Volvox
 1) ABCD only 2) BCDEF only
 3) ABCDEF 4) ABCDEFG
16. Tissue surrounding archegonia of gymnosperms is
 1) Female gametophyte
 2) Nucellus
 3) Megasporangium
 4) Tapetum
17. First cell of gametophyte and sporophyte respectively
 1) Microspore - Megaspore
 2) Spore - Zygote
 3) Zygote - Spore
 4) Pollengrain - Ovum
18. Dioecious gametophyte is found in
 1) Marchantia 2) Funaria
 3) Chara 4) 1, 2 & 3

19. In higher plants meiosis occurs when
 1) Gametophytes form gametes
 2) Gametophyte becomes sporophyte
 3) Sporophyte forms spores
 4) Spores form gametophytes
20. Zoophily is found in
 1) Pteridophytes 2) Gymnosperms
 3) Bryophytes 4) Angiosperms
21. Unicellular and multicellular plants are found in plant kingdom in
 1) Algae 2) Fungi
 3) Bryophytes 4) Pteridophytes
22. Find the wrong statement
 1) Sporangia are found in lower surface of sporophylls of ferns
 2) Sporophytes of gymnosperms and angiosperms are either monoecious or diecious
 3) Embryo is absent in algae as zygote undergoes meiosis
 4) Male gametes are motile in all seed plants
23. Last archegoniates of plant kingdom
 1) Pteridophytes 2) Bryophytes
 3) Gymnosperms 4) Angiosperms
24. Chloroplasts with different shapes are found in
 1) Chlorophyceae 2) Phaeophyceae
 3) Rhodophyceae 4) Bryophytes
25. Find the icorrect statement
 1) 2 rows of leaves are found in some liverworts
 2) 2 types of sporophylls are found in selaginella
 3) 2 types of cones are found in Cycas
 4) 2 types of flowers are found in zea mays

KEY

1	4	2	4	3	1	4	3	5	4	6	1	7	1	8	4	9	3	10	2
11	2	12	2	13	2	14	3	15	4	16	1	17	2	18	1	19	3	20	4
21	1	22	4	23	3	24	1	25	3										

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