

NEET – C3 – PLANT KINGDOM

1. Match the column I with column II and select the correct option.

Column I (Types of chloroplast)	Column II (Algae)
A. Cup-shaped	1. Ulothrix
B. Girdle-shaped	2. Oedogonium
C. Stellate	3. Chlamydomonas
D. Reticulate	4. Zygnema

A.

A	B	C	D
2	4	3	1

B.

A	B	C	D
3	1	4	2

C.

A	B	C	D
3	4	2	1

D.

A	B	C	D
4	3	1	2

2. Which of the following plant materials, is an efficient water imbibant?

A. Lignin

B. Pectin

C. Agar

D. Cellulose

3. From which of the following algae, agar-agar is commercially extracted?

I. Gracilaria

II. Fucus

III. Sargassum

IV. Gelidium

V. Turbinaria

A. III and V

B. II and III

C. IV and V

D. I and IV

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- 4. Water bloom is generally caused by**
- A. green algae
B. blue-green algae
C. bacteria
D. Hydrilla
- 5. The thallus of Volvox is called**
- A. trichome
B. coenobium
C. coenocyte
D. parenchymatous
- 6. A protein rich green alga is**
- A. Chlorella
B. Spirulina
C. Spirogyra
D. Ulothrix
- 7. Diatoms belong to which class?**
- A. Phaeophyceae
B. Bacillariophyceae
C. Chlorophyceae
D. Xanthophyceae
- 8. Male and female gametophytes are independent and free-living in**
- A. mustard
B. castor
C. Pinus
D. Sphagnum
- 9. Which region is responsible for origin of rhizoids in Funaria?**
- A. Lateral region
B. Dorsal region
C. Ventral region
D. Basal region
- 10. Which of the following in moss capsule is haploid/gametophytic tissue?**
- A. Annulus and peristome
B. Calyptra and spore
C. Columella and theca
D. Operculum foot and seta
- 11. Number of peristomial teeth in moss is**
- A. 16+16
B. 16+32
C. 8+16
D. 32+32
- 12. Which of these is mismatched?**
- A. Phaneros - Visible
B. Kryptos - Concealed
C. Gymno - Naked
D. Bryon - Liverworts
- 13. Which of the following is pteridophytes belong to class-Pteropsida?**
- A. Equisetum and Psilotum
B. Lycopodium and Adiantum
C. Selaginella and Pteris
D. Pteris and Adiantum

14. Leaf in young condition in fern is called

- A. scale leaf
B. sporophyll
C. circinate ptyxis
D. None of these

15. Seed habit is linked to

- A. homospory
B. heterospory
C. parthenogenesis
D. parthenocarpy

16. Which one of the following is called maiden-hair fern?

- A. Dryopteris
B. Pteris
C. Adiantum
D. Lycopodium

17. The heart-shaped form of prothallus represents

- A. dioecious
B. monoecious sporophyte
C. monoecious gametophyte
D. None of the above

18. Assertion : Fertilization in Cycas is called zooidogamy.

Reason : Fertilization in Cycas takes place by the formation of pollen tube.

- A. Both Assertion and Reason are true and Reason is the correct explanation of Assertion
B. Both Assertion and Reason are true but Reason is not the correct explanation of Assertion
C. Assertion is true but Reason is false
D. Assertion is false but Reason is true

19. Match items in column I with those in column II.

Column I	Column II
A. Peritrichous flagellation	1. Ginko
B. Living fossil	2. Macrocystis
C. Rhizophore	3. Escherichia coil
D. Smallest flowering plant	4. Selaginella
E. Largest perennial alga	5. Wolffia

A.

A	B	C	D	E
2	1	3	4	5

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B.

A	B	C	D	E
5	3	2	5	1

C.

A	B	C	D	E
1	2	5	3	2

D.

A	B	C	D	E
3	1	4	5	2

20. Ovules of gymnosperm is

- A. bitegmic
 B. unitegmic
 C. naked
 D. Both (b) and (c)

21. Cycas stem shows

- A. porous wood
 B. manoxylic wood
 C. pycnoxylic wood
 D. ring porous wood

22. Top-shaped multiciliate male gametes and the mature seed, which bears only one embryo with two cotyledons, are characteristic features of

- A. polypetalous angiosperms
 B. Gamopetalous angiosperms
 C. conifers
 D. cycads

23. Cycas revoluta is popularly known as

- A. date palm
 B. sago palm
 C. sea palm
 D. royal palm

24. In Pinus, male cone bears a large number of

- A. ligules
 B. anthers
 C. microsporophylls
 D. megasporophylls

25. Resin duct of gymnospermous stem is an example of

- A. lysigenous cavity
 B. lysogenous cavity
 C. schizogenous cavity
 D. schizolysigenous cavity

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

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