




Class Test - 01

Yakeen NEET 2.0 - 2026

Duration : 30 Min.

Topic : Plant Kingdom

Botany By Rupesh Chaudhary Sir

1. Life cycle of *Ectocarpus* and *Fucus* respectively are: (2017 - Delhi)
- Haplontic, Diplontic
 - Diplontic, Haplodiplontic
 - Haplo-diplontic, Diplontic
 - Haplo-diplontic, Haplontic
2. Zygotic meiosis is characteristic of: (2017-Delhi)
- Marchantia*
 - Fucus*
 - Funaria*
 - Chlamydomonas*
3. Select the wrong statement: (2013)
- Chlamydomonas* exhibits both isogamy and anisogamy and *Fucus* shows oogamy
 - Isogametes are similar in structure, function and behaviour
 - Anisogametes differ either in structure, function or behaviour
 - In oogamous reproduction, female gamete is smaller and motile, while male gamete is larger and non motile
4. Read the following statements and choose the set of correct statements. (2024)
- In the members of Phaeophyceae,
- Asexual reproduction occurs usually by biflagellate zoospores.
 - Sexual reproduction is by oogamous method only.
 - Stored food is in the form of carbohydrates which is either mannitol or laminarin.
 - The major pigments found are chlorophyll a, c and carotenoids and xanthophyll.
 - Vegetative cells have a cellulosic wall, usually covered on the outside by gelatinous coating of algin.
- Choose the correct answer from the options given below:
- A, C, D and E only
 - A, B, C and E only
 - A, B, C and C only
 - B, C, D and E only
5. Which classes of algae possess pigment fucoxanthin and pigment phycoerythrin, respectively? (2023-Manipur)
- Phaeophyceae and Chlorophyceae
 - Phaeophyceae and Rhodophyceae
 - Chlorophyceae and Rhodophyceaea.
 - Rhodophyceae and Phaeophyceae
6. Read the following statements and identify the characters related to the alga shown in the diagram
- 
- It is a member of Chlorophyceae
 - Food is stored in the form of starch
 - It is a monoecious plant showing oogonium and antheridium
 - Food is stored in the form of laminarin or mannitol
 - It shows dominance of pigments Chlorophyll a, c and Fucoxanthin
- Choose the correct answer from the options given below: (2022 Re)
- (C), (D) and (E) only
 - (A) and (B) only
 - (A), (B) and (C) only
 - (A), (C) and (D) only
7. Which of the following is incorrectly matched? (2022)
- Volvox* – Starch
 - Ectocarpus* – Fucoxanthin
 - Ulothrix* – Mannitol
 - Porphyra* – Floridean Starch
8. Hydrocolloid carrageen is obtained from: (2022)
- Phaeophyceae only
 - Chlorophyceae and Phaeophyceae
 - Phaeophyceae and Rhodophyceae
 - Rhodophyceae only



9. Which of the following algae produce Carrageen? (2021)
(1) Brown algae (2) Red algae
(3) Blue-green algae (4) Green algae
10. Which of the following algae contains mannitol as reserve food material? (2021)
(1) *Gracilaria* (2) *Volvox*
(3) *Ulothrix* (4) *Ectocarpus*
11. Which of the following pairs is of unicellular algae? (2020)
(1) *Gelidium* and *Gracilaria*
(2) *Anabaena* and *Volvox*
(3) *Chlorella* and *Spirulina*
(4) *Laminaria* and *Sargassum*
12. Floridean starch has structure similar to: (2020)
(1) Amylopectin and glycogen
(2) Mannitol and algin
(3) Laminarin and cellulose
(4) Starch and cellulose
13. Phycoerythrin is the major pigment in: (2020-Covid)
(1) Blue green algae (2) Green algae
(3) Brown algae (4) Red algae
14. An example of colonial alga is (2017-Delhi)
(1) *Chlorella* (2) *Volvox*
(3) *Ulothrix* (4) *Spirogyra*
15. Which one of the following statements is wrong? (2016 - II)
(1) Agar-agar is obtained from *Gelidium* and *Gracilaria*.
(2) *Laminaria* and *Sargassum* are used as food.
(3) Algae increase the level of dissolved oxygen in the immediate environment.
(4) Algin is obtained from red algae, and carrageen from brown algae.
16. Male gametes are flagellated in: (2015)
(1) *Ectocarpus*
(2) *Spirogyra*
(3) *Polysiphonia*
(4) *Anabaena*
17. Isogamous condition with non-flagellated gametes is found in : (2013)
(1) *Fucus* (2) *Chlamydomonas*
(3) *Spirogyra* (4) *Volvox*
18. An algae which is used as food supplements even by space travellers is
(1) *Spirogyra* (2) *Dictyota*
(3) *Spirulina* (4) *Gracilaria*
19. In red algae, food is stored in the form of
(1) Floridean starch
(2) Mannitol
(3) Glycogen and leucosin
(4) Laminarin
20. Agar is obtained from
(1) *Polysiphonia* and *Porphyra*
(2) *Chlamydomonas* and *Spirogyra*
(3) *Gelidium* and *Gracilaria*
(4) *Chara* and *Chlamydomonas*
21. Which of the following is a brown algae?
(1) *Sargassum* (2) *Volvox*
(3) *Ulothrix* (4) *Chara*
22. Red algae are named so because of the predominance of
(1) Xanthophyll (2) r-phycoerythrin
(3) Carotene (4) Chlorophyll a & b
23. The cell wall of brown algae is made up of
(1) Cellulose and chitin
(2) Cellulose and peptidoglycan
(3) Cellulose and algin
(4) Cellulose and starch
24. Which of the following is a colonial algae?
(1) *Chlamydomonas* (2) *Ulothrix*
(3) *Volvox* (4) *Spirogyra*
25. Anteriorly placed, equal, 2-8, flagella are characteristic to
(1) Blue green algae
(2) Green algae
(3) Brown algae
(4) Red algae



26. Which set of characters is specific to red algae?

- (1) Phycobilins, Chlorophyll a and c
- (2) Chlorophyll a and d, Floridean starch
- (3) Flagella absent, Mannitol
- (4) Fucoxanthin, Floridean starch

27. Plant body is differentiated in hold fast, stipe and frond in

- (1) *Ulva*
- (2) *Laminaria*
- (3) *Oedogonium*
- (4) *Acetabularia*

28. Motile, asexual and endogenous spores produced in algal members are called

- (1) Zoospores
- (2) Aplanospores
- (3) Conidia
- (4) Cyst



ANSWER KEY

1. (3)
2. (4)
3. (4)
4. (1)
5. (2)
6. (3)
7. (3)
8. (4)
9. (2)
10. (4)

11. (3)
12. (1)
13. (4)
14. (2)
15. (4)
16. (1)
17. (3)
18. (3)
19. (1)
20. (3)

21. (1)
22. (2)
23. (3)
24. (3)
25. (2)
26. (2)
27. (2)
28. (1)



PW Web/App - <https://smart.link/7wwosivoicgd4>

Library- <https://smart.link/sdfez8ejd80if>