

Yakeen NEET 2.0 2026

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Plant Kingdom

DPP: 1

- Q1** Algae are:
 (A) Always aquatic
 (B) Always terrestrial
 (C) Mostly aquatic
 (D) Occasionally aquatic
- Q2** Consider the following statements (A-D) about algae and choose the correct option.
 A. Highly variable in form and size.
 B. Commonly asexual reproduction occurs by motile conidiospores.
 C. Simple, thalloid and largely aquatic organisms.
 D. A few of the marine forms such as *kelps*, form massive plant bodies.
 (A) Only D is incorrect
 (B) Only B is incorrect
 (C) A and C are incorrect
 (D) All statements are correct
- Q3** Most common asexual spore in algae is
 (A) Conidia (B) Zoospore
 (C) Chlamydospore (D) Sporangiospore
- Q4** In oogamy, fertilisation involves:
 (A) A large non-motile female gamete and a small motile male gamete
 (B) A large non-motile female gamete and a small non-motile male gamete
 (C) A large motile female gamete and a small non-motile male gamete
 (D) A small non-motile female gamete and a large motile male gamete
- Q5** Identify the mismatched pair.
 (A) *Fucus* – Oogamous
 (B) *Eudorina* – Anisogamous
 (C) *Spirogyra* – Isogamous
 (D) *Ulothrix* – Anisogamous
- Q6** Most of algae show type of life cycle.
 (A) Diplontic (B) Haplodiplontic
 (C) Diplohaplontic (D) Haplontic
- Q7** *Eudorina* is:
 (A) Isogamous
 (B) Oogamous
 (C) Anisogamous
 (D) None of the above
- Q8** In chlorophyceae and phaeophyceae, the type(s) of sexual reproduction is/are:
 (A) Isogamous (B) Anisogamous
 (C) Oogamous (D) All of these
- Q9** Match the List-I and List-II and choose the correct option.
- | List-I
(Class) | | List-II
(Major pigments) | |
|-------------------|---------------|-----------------------------|---|
| A. | Chlorophyceae | P. | Chlorophyll <i>a</i> , <i>c</i> and fucoxanthin |
| B. | Phaeophyceae | Q. | Chlorophyll <i>a</i> , <i>d</i> and phycoerythrin |
| C. | Rhodophyceae | R. | Chlorophyll <i>a</i> , <i>b</i> |
- (A) A-R; B-P; C-Q (B) A-R; B-Q; C-P
 (C) A-Q; B-P; C-R (D) A-P; B-R; C-Q
- Q10**



Which of the following is a correct match of algal class with its characteristic reserve food?

- (A) Chlorophyceae - Starch
- (B) Phaeophyceae - Mannitol, Laminarin
- (C) Rhodophyceae - Floridean starch
- (D) All of these

Q11 Select the correct match of algal class and its characteristic flagellation.

- (A) Chlorophyceae - 2-8 equal, apical
- (B) Phaeophyceae - 2, unequal lateral
- (C) Rhodophyceae - Absent
- (D) All of these

Q12 The mentioned features in the given box are related with the class of algae, exemplified by Ch a, b, cell wall (cellulose), pyrenoids (reserve food)

- (A) *Sargassum*, *Laminaria*
- (B) *Ectocarpus*, *Porphyra*
- (C) *Ulothrix*, *Chlamydomonas*
- (D) *Porphyra*, *Polysiphonia*

Q13 An example of colonial alga is

- (A) *Chlorella* (B) *Ulothrix*
- (C) *Volvox* (D) *Spirogyra*

Q14 Which of the following group is green algae?

- (A) *Chara*, *Laminaria* and *Sargassum*
- (B) *Chara*, *Volvox*, *Ulothrix* and *Chlorella*
- (C) *Porphyra*, *Polysiphonia* and *Chlamydomonas*
- (D) *Polysiphonia*, *Ectocarpus* and *Cladophora*

Q15 Which of the following is filamentous?

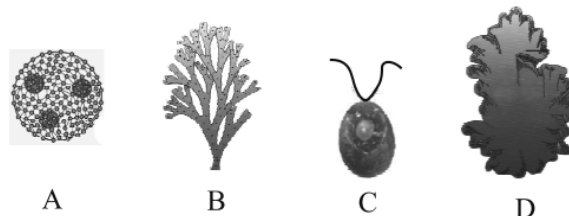
- (A) *Ulothrix* and *Spirogyra*
- (B) *Volvox*
- (C) *Chlamydomonas*
- (D) All of these

Q16 The type of chloroplasts observed in class Chlorophyceae is:

- (A) Discoid and plate-like

- (B) Spiral or ribbon-shaped
- (C) Reticulate and cup-shaped
- (D) All of these

Q17 Select the correct statement following the diagram?



- (A) A and B belong to same group and have cellulose in their cell wall.
- (B) B and D belong to different groups and both have cellulose and pectin in their cell walls.
- (C) A and C belong to same group and both have chlorophyll a and b as major photosynthetic pigments.
- (D) C and D belong to different groups and both have starch as stored food material.

Q18 Match the following and choose the correct option.

List-I		List-II	
A.	Rhodophyceae	P.	Algin
B.	Chlorophyceae	Q.	Gemmae
C.	Liverworts	R.	Chlorophyll a, d
D.	Phaeophyceae	S.	Chlorophyll a, b

- (A) A-S; B-P; C-R; D-Q
- (B) A-Q, B-R, C-S; D-P
- (C) A-R, B-S, C-Q; D-P
- (D) A-R, B-S, C-P; D-Q

Q19 Kelps belongs to

- (A) Red algae (B) Brown algae
- (C) Green algae (D) None of above

Q20 Which of the following algae contains mannitol as reserved food material?

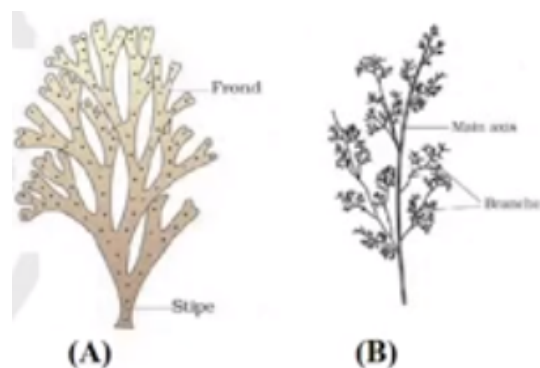


- (A) *Gracilaria* (B) *Volvox*
(C) *Ulothrix* (D) *Ectocarpus*

- Q21** Read the following statements and choose the set of correct statements: In the members of Phaeophyceae,
A. Asexual reproduction occurs usually by biflagellate zoospores.
B. Sexual reproduction is by oogamous method only.
C. Stored food is in the form of carbohydrates which is either mannitol or laminarin.
D. The major pigments found are chlorophyll a, c and carotenoids and xanthophyll.
E. 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) A, B, C and E only
(B) A, B, C and D only
(C) B, C, D and E only
(D) A, C, D and E only

- Q22** In phaeophyceae, the gametes are:
(A) Pyriform and bear 2 flagella (one longitudinal and other transverse)
(B) Pear-shaped and bear 2 flagella that are laterally attached
(C) Pyriform and bear 2-8, equal and apical flagella
(D) Pear-shaped and bear 2-8, equal and apical flagella

- Q23** Identify the given figures of algae and select the correct option.



- (A) *A-Fucus B-Polysiphonia*
(B) *A-Dictyota B-Polysiphonia*
(C) *A-Dictyota B-Porphyra*
(D) *A-Porphyra B-Polysiphonia*

- Q24** Match List-I with List-II:

	List-I		List-II
(A)	<i>Spirogyra</i>	(I)	Unicellular
(B)	<i>Chlamydomonas</i>	(II)	Filamentous
(C)	<i>Volvox</i>	(III)	Colonial form
(D)	Some giant marine forms	(IV)	Kelps

Choose the **correct** answer from the options given below:

- (A) A-I, B-II, C-III, D-IV
(B) A-I, B-IV, C-III, D-II
(C) A-II, B-I, C-III, D-IV
(D) A-I, B-III, C-IV, D-II

- Q25** Photosynthetic pigments of Rhodophyceae (red algae) are
(A) Chl a and b
(B) Chl a and c, fucoxanthin
(C) Chl a and e
(D) Chl a, Chl d and phycoerythrin

- Q26** Floridean starch is very similar to in..... structure and found in.....
(A) Amylopectin, *Gracilaria*
(B) Amylopectin, *Laminaria*
(C) Glycogen, *Volvox*



(D) Glucose, *Sargassum*

Q27 Select the incorrect match

(A)



Green algae, presence of pyrenoids, starch is the reserve food

(B)



Red algae, presence of phycoerythrin pigment

(C)



Green algae, Fucoxanthin pigment, sulphated phycocolloids

(D)



Brown algae, two flagella in zoospore

Q28 In which class, the cell wall possesses pectin and polysulphate esters beside the cellulose?

(A) Chlorophyceae

(B) Phaeophyceae

(C) Rhodophyceae

(D) All of these

Q29 Certain marine brown and red algae produce large amounts of hydrocolloids, such as _____ from brown algae and _____ from red algae, which are used commercially.

(A) protein, agar

(B) carrageen, algin

(C) algin, carrageen

(D) none of these

Q30 Match column I with column II and select the correct option from the codes given below.

Column I		Column II	
A.	Food	(i)	Brown algae
B.	Agar	(ii)	<i>Porphyra, Laminaria</i>
C.	Algin	(iii)	<i>Gelidium, Gracilaria</i>
D.	Carrageenin	(iv)	Red algae

(A) A-(ii), B-(iii), C-(i), D-(iv)

(B) A-(ii), B-(iii), C-(iv), D-(i)

(C) A-(iii), B-(ii), C-(iv), D-(i)

(D) A-(iii), B-(ii), C-(i), D-(iv)



Answer Key

Q1 (C)
Q2 (B)
Q3 (B)
Q4 (A)
Q5 (D)
Q6 (D)
Q7 (C)
Q8 (D)
Q9 (A)
Q10 (D)
Q11 (D)
Q12 (C)
Q13 (C)
Q14 (B)
Q15 (A)

Q16 (D)
Q17 (C)
Q18 (C)
Q19 (B)
Q20 (D)
Q21 (D)
Q22 (B)
Q23 (B)
Q24 (C)
Q25 (D)
Q26 (A)
Q27 (C)
Q28 (C)
Q29 (C)
Q30 (A)



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