

# Yakeen NEET 2.0 2026

## Practice Sheet

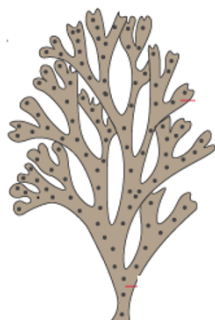
### Botany By Rupesh Chaudhary Sir

### Plant Kingdom

- Q1** The leaves in conifers are well-adapted to tolerate extreme environmental conditions due to having;
- (A) Needle-like leaves.  
(B) Sunken stomata.  
(C) Thick cuticle.  
(D) All of the above

- Q2** Artificial system of classification was given by \_\_A\_\_ and was based on \_\_B\_\_. Choose the **correct** option with respect to blanks **A** and **B**.
- (A) A-Whittaker; B-anatomical characters  
(B) A-Linnaeus; B-cytological information  
(C) A-Linnaeus; B-morphological characters  
(D) A-Whittaker; B-morphological characters

- Q3** Identify the given figures of algae and select the **correct** option.



(A)



(B)

- (A) A-*Fucus*    B-*Polysiphonia*  
(B) A-*Dictyota*    B-*Polysiphonia*  
(C) A-*Dictyota*    B-*Porphyra*  
(D) A-*Porphyra*    B-*Polysiphonia*
- Q4** Which of the following represents the most advanced plant group in terms of evolution?
- (A) *Selaginella*                      (B) *Funaria*  
(C) *Chlamydomonas*                (D) *Pinus*

- Q5** Cell wall of chlorophyceae is generally made up of;
- (A) cellulose only.  
(B) pectose only.  
(C) outer layer of cellulose and inner layer of pectose.  
(D) inner layer of cellulose and an outer layer of pectose.

- Q6** In algae, zoospores are produced during \_\_\_\_\_ reproduction in favourable conditions.
- (A) vegetative  
(B) asexual  
(C) sexual  
(D) Both (A) and (B)

- Q7** Isogamous with non-flagellated gamete producing plant is;
- (A) *Eudorina*.                      (B) *Spirogyra*.  
(C) *Ulothrix*.                      (D) *Fucus*.

- Q8** Given below are two statements: one is labelled as Assertion A and the other is labelled as Reason R:

**Assertion A:** Algae occur in a variety of other habitats such as moist stones, soils and wood.

**Reason R:** The form and size of algae is highly variable.

In the light of the above statements, choose the **correct** answer from the options given below.

- (A) A is true but R is false.  
(B) A is false but R is true.  
(C) Both A and R are true and R is the correct explanation of A.  
(D)



Both A and R are true but R is NOT the correct explanation of A.

- Q9** Agar is mostly obtained from;  
 (A) blue green algae.  
 (B) chlorophyceae.  
 (C) rhodophyceae.  
 (D) phaeophyceae.
- Q10** Rhizoids in bryophytes are;  
 (A) unicellular, root-like structure.  
 (B) multicellular, root-like structure.  
 (C) multicellular, stem-like structure.  
 (D) Both (A) and (B).
- Q11** Stored food of brown algae is;  
 (A) laminarin & Mannitol.  
 (B) starch.  
 (C) floridean starch.  
 (D) algin.
- Q12** In heterosporous pteridophytes, embryo development occurs in:  
 (A) female gametophyte.  
 (B) microspore.  
 (C) sporophyte.  
 (D) male gametophyte.
- Q13** Which of the following is **correct** regarding economic importance of algae?  
 (A) Many species of *Porphyra*, *Laminaria* and *Sargassum* are edible.  
 (B) Some commercial products such as algin and carrageen are obtained from brown algae and red algae respectively.  
 (C) *Chlorella* is used as food supplement by space travellers.  
 (D) All of these
- Q14** Given below are two statements:  
**Statement I** : Main plant body of bryophytes is sporophytic.  
**Statement II** : Main plant body of pteridophytes is gametophytic.  
 In the light of the above statements, choose the

*most appropriate* answer from the options given below:

- (A) Statement I is correct but statement II is incorrect.  
 (B) Statement I is incorrect but statement II is correct.  
 (C) Both statements I and statement II are correct.  
 (D) Both statements I and statement II are incorrect.
- Q15** Which of the following alga is profusely branched and may reach a height of 100 metres?  
 (A) Kelps  
 (B) *Ectocarpus*  
 (C) *Polysiphonia*  
 (D) *Chara*
- Q16** Majority of members of rhodophyceae found in;  
 (A) cold and marine water.  
 (B) warm and marine water.  
 (C) cold and fresh water.  
 (D) warm and fresh water.
- Q17** Given below are two statements: one is labelled as Assertion (A) and the other is labelled as Reason (R):  
**Assertion (A):** At present phylogenetic classification systems based on evolutionary relationships between the various organisms are not acceptable.  
**Reason (R):** Phylogenetic classification system assumes that organisms belonging to the same taxa have a common ancestor.  
 In the light of the above statements, choose the **correct** answer from the options given below:  
 (A) A is true but R is false.  
 (B) A is false but R is true.  
 (C) Both A and R are true and R is the correct explanation of A.  
 (D) Both A and R are true but R is NOT the correct explanation of A.
- Q18** Flagellar structures are absent in;  
 (A) chlorophyceae. (B) rhodophyceae.



(C) phaeophyceae. (D) bryophytes.

**Q19** Given below are two statements:

**Statement I:** The mosses have an elaborate mechanism of spore dispersal.

**Statement II:** Leafy stage in mosses develops from secondary protenema, as an apical bud.

In the light of the above statements, choose the *most appropriate* answer from the options given below:

- (A) Statement I is correct but Statement II is incorrect.
- (B) Statement I is incorrect but Statement II is correct.
- (C) Both Statement I and Statement II are correct.
- (D) Both Statement I and Statement II are incorrect.

**Q20** Which of the following is **incorrect** about gametes of bryophytes?

- (A) Antherozoids are released into water where they come in contact with archegonium.
- (B) Biflagellate antherozoids are produced in antheridium.
- (C) Single egg cell is produced in flask-shaped archegonium.
- (D) The female sex organ is called antheridium.

**Q21** Which of the following statements is **incorrect**?

- (A) Mosses along with lichens are the first organisms to colonise rocks.
- (B) *Sphagnum* is used as packing material for trans-shipment of living material.
- (C) In liverworts, spores are produced after meiosis within the capsule.
- (D) *Funaria* possesses unicellular unbranched rhizoids.

**Q22** An exceptionally large group of plants with wide range of habitats occur in the:

- (A) gymnosperms.
- (B) pteridophytes.
- (C) angiosperms.
- (D) bryophytes.

**Q23**

The type of complex carbohydrates which are primarily used for food storage in brown algae is:

- (A) starch.
- (B) glycogen.
- (C) laminarin or mannitol.
- (D) cellulose.

**Q24** Read the following statements.

- A. Algae contribute in atleast a half of the total carbon dioxide fixation on earth.
- B. Algae increase the level of dissolved oxygen in their environment.
- C. *Sargassum* is used as food.
- D. Carrageen is obtained from brown algae.
- E. *Chlorella* is used by space travellers as food supplement.

Choose the most appropriate answer from the options given below:

- (A) All A, B, C, D and E are correct.
- (B) Only A, C and D are incorrect.
- (C) Only A, B, C and E are correct.
- (D) Only B, C, D and E are incorrect.

**Q25** Read the following and identify the **correctly** matched pair from the following.

- (A) *Funaria* - Red algae
- (B) *Adiantum* - Sphenopsida
- (C) *Polytrichum* - Liverwort
- (D) *Sargassum* - Brown algae

**Q26** *Equisetum* plant belongs to the class:

- (A) Pteropsida. (B) Sphenopsida.
- (C) Psilopsida. (D) Lycopsida.

**Q27** Match **List-I** with **List-II**.

|     | List-I    |       | List-II                             |
|-----|-----------|-------|-------------------------------------|
| (A) | Food      | (I)   | Brown algae                         |
| (B) | Agar      | (II)  | <i>Porphyra</i> , <i>Laminaria</i>  |
| (C) | Algin     | (III) | <i>Gelidium</i> , <i>Gracilaria</i> |
| (D) | Carrageen | (IV)  | Red algae                           |

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

- (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

**Q28** The major pigments found in brown algae are:

(A) r-phycoerythrin.

(B) chlorophyll *a* and *b*.(C) chlorophyll *a*, *c* and fucoxanthin.(D) chlorophyll *b*, *d* and carotenoids.**Q29** Ovules are not enclosed by the ovaries in:

(A) pteridophytes

(B) angiosperms

(C) gymnosperms

(D) All of these

**Q30** In which of the following gametophyte is **not** independent (free-living)?(A) *Pinus*(B) *Funaria*(C) *Marchantia*(D) *Pteris***Q31** Which is **incorrect** statement for gymnosperms?

(A) Pollen grain is male gametophyte

(B) Ovule is megasporangium

(C) In *Cycas*, female cone possesses megasporophylls

(D) The roots are generally tap root in gymnosperms.

**Q32** Given below are two statements:**Statement I:** Some mosses provide food for birds and some animals.**Statement II:** The leaves in bryophytes are well adapted to withstand extreme temperature, humidity and wind.

In the light of the above statements, choose the most appropriate answer from the options given below:

(A) Statement I is correct but Statement II is incorrect.

(B) Statement I is incorrect but Statement II is correct.

(C) Both Statement I and Statement II are correct.

(D) Both Statement I and Statement II are incorrect.

**Q33** Coralloid roots are found in;(A) *Pinus*(B) *Cycas*(C) *Sequoia*(D) *Cedrus***Q34** Which of the following is **incorrectly** matched?(A) *Volvox* - Starch(B) *Ectocarpus* - Fucoxanthin(C) *Ulothrix* - Mannitol(D) *Porphyra* - Floridean Starch**Q35** Match List-I with List-II:

|     | List-I         |       | List-II      |
|-----|----------------|-------|--------------|
| (A) | <i>Pteris</i>  | (I)   | Bryophyte    |
| (B) | <i>Sequoia</i> | (II)  | Pteridophyte |
| (C) | <i>Wolffia</i> | (III) | Gymnosperm   |
| (D) | <i>Funaria</i> | (IV)  | Angiosperm   |

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

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

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

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

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

**Q36** Phycoerythrin, chlorophyll *a* and chlorophyll *d* are characteristics of:

(A) phaeophyceae.

(B) xanthophylls.

(C) chlorophyceae.

(D) rhodophyceae.

**Q37** Where are pyrenoids found in the cell of green alga?

(A) Cytoplasm

(B) Chloroplast

(C) Mitochondria

(D) Nucleus

**Q38** Which of the following is **not** common between *Funaria* and *Selaginella*?

(A) Archegonium

(B) Embryo

(C) Antherozoid

(D) Roots

**Q39** Artificial system of classification was based on:

(A) natural affinities among organisms.

(B) developmental characters.

(C) evolutionary relationship among organisms.

(D) gross superficial morphological characters.

**Q40** Which of the following statements are **correct** about the leafy stage in mosses?

- (I) The leafy stage develops from the secondary protonema.
- (II) The leafy stage consists of upright, slender axes bearing spirally arranged leaves.
- (III) The leafy stage consists of a creeping structure.
- (IV) The leafy stage bears the sex organs of the moss.

Choose the most appropriate answer from the options given below:

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

**Q41** In mosses creeping, green, branched and frequently filamentous stage is called:

- (A) protonema.                      (B) prothallus.
- (C) leafy stage.                      (D) sporophylls.

**Q42** The event precursor to the seed habit is seen in:

- (A) liverworts.
- (B) mosses.
- (C) homosporous pteridophyte.
- (D) heterosporous pteridophytes.

**Q43** Given below are two statements: one is labelled as Assertion A and the other is labelled as Reason R:

**Assertion A:** The predominant stage of the life cycle of a moss is the gametophyte.

**Reason R:** In mosses, gametophyte stage consists of two stages.

In the light of the above statements, choose the **correct** answer from the options given below:

- (A) A is true but R is false.
- (B) A is false but R is true.
- (C) Both A and R are true and R is the correct explanation of A.
- (D) Both A and R are true but R is NOT the correct explanation of A.

**Q44** Pollination in gymnosperms takes place through:

- (A) water.                              (B) insects.
- (C) wind.                              (D) animals.

**Q45** Bryophytes that prevent soil erosion by forming dense mats on the soil are:

- (A) ferns.                              (B) kelps.
- (C) horsetails.                              (D) mosses.



## Answer Key

Q1 (D)  
Q2 (C)  
Q3 (B)  
Q4 (D)  
Q5 (D)  
Q6 (B)  
Q7 (B)  
Q8 (D)  
Q9 (C)  
Q10 (D)  
Q11 (A)  
Q12 (A)  
Q13 (D)  
Q14 (D)  
Q15 (A)  
Q16 (B)  
Q17 (B)  
Q18 (B)  
Q19 (A)  
Q20 (D)  
Q21 (D)  
Q22 (C)  
Q23 (C)

Q24 (C)  
Q25 (D)  
Q26 (B)  
Q27 (A)  
Q28 (C)  
Q29 (C)  
Q30 (A)  
Q31 (C)  
Q32 (A)  
Q33 (B)  
Q34 (C)  
Q35 (A)  
Q36 (D)  
Q37 (B)  
Q38 (D)  
Q39 (D)  
Q40 (B)  
Q41 (A)  
Q42 (D)  
Q43 (D)  
Q44 (C)  
Q45 (D)



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