

# Yakeen NEET 2.0 2026

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## Plant Kingdom

DPP: 4

- Q1** In an artificial classification system  
 (A) A number of characters are studied  
 (B) Only a few characters are studied  
 (C) Physiological characters are studied  
 (D) Correlated characters are taken in consideration
- Q2** Classification based on evolutionary inter-relationship is called  
 (A) Numerical classification / taxonomy  
 (B) Natural taxonomy  
 (C) Biochemical taxonomy  
 (D) Phylogenetic taxonomy
- Q3** Natural classification systems take the help of:  
 (A) Ultrastructure  
 (B) Embryology and anatomy  
 (C) Phytochemistry  
 (D) All of the above
- Q4** The artificial system of classification was given by;  
 (A) R.H. Whittaker  
 (B) Aristotle and G.J. Mendel  
 (C) Carolus Linnaeus  
 (D) Aristotle and George Bentham
- Q5** Classification which is based on morphological and vegetative characters is called:  
 (A) Artificial system  
 (B) Natural system  
 (C) Phylogenetic system  
 (D) None of these.
- Q6** Fossils are important tools in  
 (A) Artificial system of classification  
 (B) Natural system of classification  
 (C) Phylogenetic system of classification  
 (D) Morphological system of classification
- Q7** Read the given statements and select the correct option.  
 Statement 1: Cytotaxonomy is based on cytological information like chromosome number, structure, behaviour  
 Statement 2: Chemotaxonomy uses the chemical constituents of the plant to resolve confusions, are also used by taxonomists these days.  
 (A) Statement 1 and 2 both are correct  
 (B) Statement 1 is correct but statement 2 is incorrect  
 (C) Statement 1 is incorrect but statement 2 is correct  
 (D) Statement 1 and 2 both are incorrect
- Q8** Which of the following statements are true about numerical taxonomy?  
 A. Equal importance given to each character  
 B. Based on all observable characters  
 C. Easily carried out using computers  
 D. At the same time, only few characters can be considered  
 (A) A, B and D (B) B, C and D  
 (C) A, C and D (D) A, B and C



- Q9** Assertion (A): Cytotaxonomy involves the cytological information for classification purposes.  
Reason (R): Chemotaxonomy is based on the chemical constituents of plants.  
(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.
- Q10** The heterosporous pteridophytes are  
(A) *Lycopodium* and *Pteris*  
(B) *Selaginella* and *Psilotum*  
(C) *Selaginella* and *Salvinia*  
(D) *Dryopteris* and *Adiantum*
- Q11** Which of the following statement is not true regarding pteridophytes  
(A) Few pteridophytes are heterosporous  
(B) Spores are formed after meiosis in ferns  
(C) They possess vascular tissues.  
(D) Their main plant body is haploid
- Q12** Leaf like appendages in sporophytes are  
(A) Sori (B) Sporangia  
(C) Sporophyll (D) Strobilus
- Q13** In pteridophytes, the main plant body is  
(A) A gametophyte (B) Thalloid  
(C) Non-vascular (D) A sporophyte
- Q14** The first terrestrial plants to possess vascular tissues are:  
(A) Bryophytes (B) Pteridophytes  
(C) Gymnosperms (D) Angiosperms
- Q15** In pteridophytes, well-differentiated vascular tissues are found in:  
(A) Roots  
(B) Stems  
(C) Leaves  
(D) All of these
- Q16** A plant shows sporophyte as a main generation. Its gametophyte shows rhizoids and is haploid. It needs water to complete its life cycle because the male gametes are motile. Identify the group to which it belongs.  
(A) Pteridophytes (B) Gymnosperms  
(C) Monocots (D) Bryophytes
- Q17** Genera like *Selaginella* and *Salvinia* produce two kinds of spores. Such plants are known as  
(A) Heterosporous (B) Homosorus  
(C) Heterosorus (D) Homosporous
- Q18** Cones or strobili are absent in  
(A) *Pinus* (B) *Selaginella*  
(C) *Equisetum* (D) *Pteris*
- Q19** In pteridophytes, prothallus produces  
(A) Sporangia  
(B) Antheridia and archegonia  
(C) Vascular tissues  
(D) Root, stem and leaf
- Q20** In pteridophytes, spore germinate to give rise to:  
(A) Thalloid gametophytes called prothallus  
(B) Thalloid, photosynthetic sporophyte  
(C) Thalloid sporocarp  
(D) Thalloid sporophytes called prothallus
- Q21** Prothallus is:  
(A) A structure in pteridophytes formed before the thallus develops  
(B) A sporophytic, inconspicuous, free-living structure formed in pteridophytes  
(C) A gametophytic, inconspicuous, free-living structure formed in pteridophytes  
(D)



A gametophytic, conspicuous, structure formed after fertilization in pteridophytes

**Q22** Assertion (A): In pteridophytes, the development of the zygotes into young embryos takes place within the female gametophytes.

Reason (R): This event in pteridophytes is a precursor to the seed habit.

(A) Both Assertion (A) and Reason (R) are True and the Reason (R) is a correct explanation of the Assertion (A).

(B) Both Assertion (A) and Reason (R) are True but Reason (R) is not a correct explanation of the Assertion (A).

(C) Assertion (A) is True but the Reason (R) is False.

(D) Assertion (A) is False but the Reason (R) is True.

**Q23** Read the following statements and choose the incorrect ones.

A. Since mosses form dense mats on the soil, they reduce the impact of falling rain and prevent soil erosion.

B. The plant body of bryophytes is more differentiated than that of algae, it is thallus like and prostrate or erect, and attached to the substratum by unicellular or multicellular rhizoids.

C. Many species of *Spirogyra* and *Chara* are among the 70 species of marine algae used as food.

D. Majority of the red algae are marine with greater concentrations found in the warmer areas.

E. The common phaeophytes are *Polysiphonia*, *Porphyra*, *Gracilaria* and *Gelidium*.

F. Bryophytes and pteridophytes, interestingly, exhibit an intermediate condition of life cycle (Haplo-diplontic), in which both phases are

multicellular but they differ in their dominant phases.

(A) C and E

(B) A, B and F

(C) B, C and F

(D) B and D

**Q24** The spread of living pteridophytes is limited and is restricted to narrow geographical region because:

(A) Gametophytic growth needs cool, damp and shady places.

(B) There is requirement of water for fertilization.

(C) There is absence of stomata in leaf and absence of vascular tissue.

(D) Both (A) and (B)

**Q25** In fern, fertilisation does not involves:

(A) Archegonia

(B) Water

(C) Pollen tube

(D) Flagellated antherozoids

**Q26** In fern, prothallus develops from

(A) Gametic union/fertilization

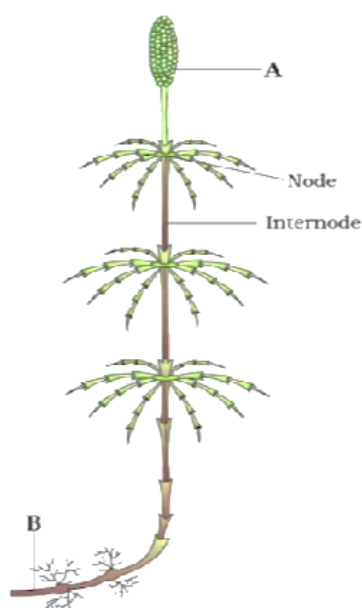
(B) Zygote

(C) 2° protonema

(D) Spore

**Q27** Identify the parts labeled as A and B in the given figure of *Equisetum* and select the correct answer.





- (A) A- Strobilus B- Rhizome  
 (B) A- Sporophylls B- Tuber  
 (C) A- Sporangia B- Rhizome  
 (D) A- Sporophyte B- Tuber

**Q28** Identify the plants shown in figure and select the correct option



- |                        |                  |
|------------------------|------------------|
| A                      | B                |
| (1) <i>Equisetum</i>   | Mosses           |
| (2) <i>Selaginella</i> | <i>Equisetum</i> |
| (3) <i>Selaginella</i> | <i>Salvinia</i>  |
| (4) <i>Equisetum</i>   | Fern             |

- (A) 1                      (B) 2  
 (C) 3                      (D) 4

**Q29** Match column I with column II and select the correct option from the codes given below:

Column I		Column II	
I.	<i>Psilopsida</i>	a.	<i>Psilotum</i>
II.	<i>Lycopsida</i>	b.	<i>Equisetum</i>
III.	<i>Sphenopsida</i>	c.	<i>Selaginella</i>
IV.	<i>Pteropsida</i>	d.	<i>Dryopteris</i>

- (A) I- a, II- b, III- c, IV- d  
 (B) I- a, II- d, III- c, IV- b  
 (C) I- a, II- c, III- b, IV- d  
 (D) I- a, II- c, III- d, IV- b

**Q30** Match the following and choose the correct option.

List-I		List-II	
A.	<i>Dictyota</i>	P.	Pteridophyte
B.	<i>Porphyra</i>	Q.	Phaeophyceae
C.	<i>Polytrichum</i>	R.	Rhodophyceae
D.	<i>Salvinia</i>	S.	Bryophyte

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

**Q31** Match the List-I and List-II and select the correct option.

List-I		List-II	
A.	<i>Sphagnum</i>	P.	Lycopsida
B.	<i>Selaginella</i>	Q.	Sphenopsida
C.	<i>Equisetum</i>	R.	Moss
D.	<i>Adiantum</i>	S.	Pteropsida

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

**Q32** Match List-I and List-II.

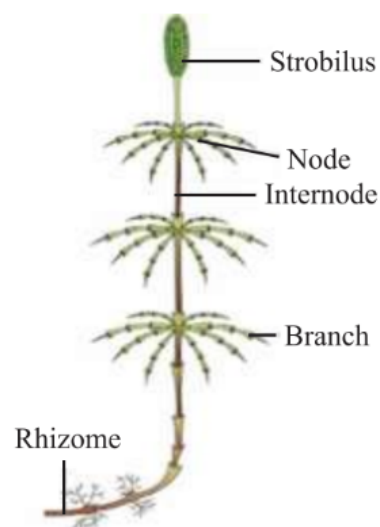


List-I		List-II	
A.	Pteropsida	P.	<i>Psilotum</i>
B.	Lycopsida	Q.	<i>Equisetum</i>
C.	Psilopsida	R.	<i>Adiantum</i>
D.	Sphenopsida	S.	<i>Selaginella</i>

Choose the correct answer from the options given below:

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

**Q33** The given diagram represents which of the following plant species:



- (A) *Selaginella*                      (B) *Equisetum*  
 (C) *Funaria*                        (D) *Salvinia*



## Answer Key

Q1 (B)  
Q2 (D)  
Q3 (D)  
Q4 (C)  
Q5 (A)  
Q6 (C)  
Q7 (A)  
Q8 (D)  
Q9 (D)  
Q10 (C)  
Q11 (D)  
Q12 (C)  
Q13 (D)  
Q14 (B)  
Q15 (D)  
Q16 (A)  
Q17 (A)

Q18 (D)  
Q19 (B)  
Q20 (A)  
Q21 (C)  
Q22 (A)  
Q23 (A)  
Q24 (D)  
Q25 (C)  
Q26 (D)  
Q27 (A)  
Q28 (C)  
Q29 (C)  
Q30 (C)  
Q31 (A)  
Q32 (D)  
Q33 (B)



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