

PYQSide

NEET PLANT KINGDOM — PTERIDOPHYTES — PYQS

Max. Marks: 68

Questions: 17

Section A (MCQ)

Q.1 Sphenopsida class belongs to _____.

[RE-NEET (UG) 2026]

- (1) pteridophytes (2) bryophytes
(3) angiosperms (4) gymnosperms

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Q.2 Given below are the stages in the life cycle of pteridophytes. Arrange the following stages in the correct sequence.

- A. Prothallus stage
B. Meiosis in spore mother cells
C. Fertilisation
D. Formation of archegonia and antheridia in gametophyte.
E. Transfer of antherozoids to the archegonia in presence of water.

Choose the correct answer from the options given below:

[NEET (UG) 2025]

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

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Q.3 Identify the incorrect pair : [RE-NEET (UG) 2024]

- (1) Sphenopsida – *Adiantum*
(2) Pteropsida – *Dryopteris*
(3) Psilopsida – *Psilotum*
(4) Lycopsidea – *Selaginella*

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Q.4 Identify the pair of heterosporous pteridophytes among the following : [NEET (UG) 2023]

- (1) *Selaginella* and *Salvinia*
(2) *Psilotum* and *Salvinia*
(3) *Equisetum* and *Salvinia*
(4) *Lycopodium* and *Selaginella*

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Q.5 Strobili or cones are found in [NEET (UG) 2020]

- (1) *Pteris* (2) *Marchantia*
(3) *Equisetum* (4) *Salvinia*

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Q.6 Genera like *Selaginella* and *Salvinia* produce two kinds of spores. Such plants are known as :

[NEET (UG) 2021]

- (1) Heterosporous (2) Homosorus
(3) Heterosorus (4) Homosporous

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Q.7 From evolutionary point of view, retention of the female gametophyte with developing young embryo on the parent sporophyte for some time, is first observed in:

[NEET (UG) 2019]

- (1) Pteridophytes (2) Mosses
(3) Liverworts (4) Gymnosperms

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Q.8 Which one of the following pairs is wrongly matched?

[AIPMT 2012 (Mains)]

- (1) *Ginkgo* – Archegonia (2) *Salvinia* – Prothallus
(3) Viroids – RNA (4) Mustard – Synergids

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Q.9 Which one of the following is a correct statement?

[AIPMT 2012 (Prelims)]

- (1) Pteridophyte gametophyte has a protonemal and leafy stage.
(2) In gymnosperms, female gametophyte is free-living.
(3) Antheridiophores and archegoniophores are present in pteridophytes.
(4) Origin of seed habit can be traced in pteridophytes.

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Q.10 *Selaginella* and *Salvinia* are considered to represent a significant step toward evolution of seed habit because

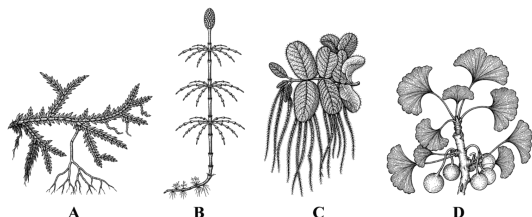
[AIPMT 2011 (Mains)]

- (1) female gametophyte is free and gets dispersed like seeds.
- (2) female gametophyte lacks archegonia.
- (3) megaspores possess endosperm and embryo surrounded by seed coat.
- (4) embryo develops in female gametophyte which is retained on parent sporophyte.

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Q.11 Examine the figures A, B, C and D. In which one of the four options all the items A, B, C and D are correct?
[AIPMT 2010 (Mains)]



- (1) (A) → *Funaria*, (B) → *Adiantum*, (C) → *Salvinia*, (D) → *Riccia*
- (2) (A) → *Equisetum*, (B) → *Ginkgo*, (C) → *Selaginella*, (D) → *Lycopodium*
- (3) (A) → *Chara*, (B) → *Marchantia*, (C) → *Fucus*, (D) → *Pinus*
- (4) (A) → *Selaginella*, (B) → *Equisetum*, (C) → *Salvinia*, (D) → *Ginkgo*

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Q.12 Which one of the following is a vascular cryptogam?
[AIPMT 2009]

- (1) *Ginkgo*
- (2) *Marchantia*
- (3) *Cedrus*
- (4) *Equisetum*

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Q.13 Which one of the following is considered important in the development of seed habit?
[AIPMT 2009]

- (1) Heterospory
- (2) Haplontic life cycle
- (3) Free-living gametophyte
- (4) Dependent sporophyte

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Q.14 Which one of the following is heterosporous?

[AIPMT 2008]

- (1) *Adiantum*
- (2) *Equisetum*
- (3) *Dryopteris*
- (4) *Salvinia*

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Q.15 In the prothallus of a vascular cryptogam, the antherozoids and eggs mature at different times. As a result
[AIPMT 2007]

- (1) there is high degree of sterility
- (2) one can conclude that the plant is apomictic
- (3) self fertilization is prevented
- (4) there is no change in success rate of fertilization

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Q.16 Ectophloic siphonostele is found in
[AIPMT 2005]

- (1) *Osmunda* and *Equisetum*
- (2) *Marsilea* and *Botrychium*
- (3) *Adiantum* and *Cucurbitaceae*
- (4) *Dicksonia* and Maiden hair fern.

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Q.17 In ferns, meiosis takes place at the time of

[AIPMT 2000]

- (1) spore formation
- (2) spore germination
- (3) gamete formation
- (4) antheridia and archegonia formation

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ANSWER KEY

Ques.	1	2	3	4	5	6	7	8	9	10	11
Ans.	1	3	1	1	3	1	1	2	4	4	4
Ques.	12	13	14	15	16	17					
Ans.	4	1	4	3	1	1					