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# NEET PLANT KINGDOM — GYMNOSPERMS — PYQS

**Max. Marks:** 104 **Questions:** 26

## Section A (MCQ) — 26 questions

**Q.1** In which one of the following, the ovules are not enclosed by an ovary wall and remain exposed? [NEET (UG) 2026]

(1) *Pinus* (2) *Wolffia*
(3) *Funaria* (4) *Selaginella*

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**Q.2** Given below are two statements:
**Statement-I:** In gymnosperms, the male and female gametophytes remain within the sporangia.
**Statement-II:** In gymnosperms, seeds are not covered.

In the light of the above statements, choose the most appropriate answer from the options given below: [RE-NEET (UG) 2026]

(1) Statement-I is incorrect but Statement-II is correct
(2) Both Statement-I and Statement-II are correct
(3) Both Statement-I and Statement-II are incorrect
(4) Statement-I is correct but Statement-II is incorrect

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**Q.3** Which one of the following is the characteristic feature of gymnosperms? [NEET (UG) 2025]

(1) Seeds are absent
(2) Gymnosperms have flowers for reproduction
(3) Seeds are enclosed in fruits
(4) Seeds are naked

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**Q.4** Which of the following is the correct match? [RE-NEET (UG) 2024]

(1) Gymnosperms : *Cedrus*, *Pinus*, *Sequoia*
(2) Angiosperms : *Wolffia*, *Eucalyptus*, *Sequoia*
(3) Bryophytes : *Polytrichum*, *Polysiphonia*, *Sphagnum*
(4) Pteridophytes : *Equisetum*, *Ginkgo*, *Adiantum*

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**Q.5** Given below are two statements : One labelled as Assertion A and the other labelled as Reason R:
**Assertion (A):** In gymnosperms the pollen grains are released from the microsporangium and carried by air currents.
**Reason (R):** Air currents carry the pollen grains to the mouth of the archegonia where the male gametes are discharged and pollen tube is not formed.

In the light of the above statements, choose the correct answer from the options given below : [NEET (UG) 2023]

(1) Both A and R are true but R is NOT the correct explanation of A
(2) A is true but R is false
(3) A is false but R is true
(4) Both A and R are true and R is the correct explanation of A

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**Q.6** *Pinus* seed **cannot** germinate and establish without fungal association. This is because : [NEET (UG) 2019]

(1) it has very hard seed coat
(2) its seeds contain inhibitors that prevent germination
(3) its embryo is immature
(4) it has obligate association with mycorrhizae

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**Q.7** Which of the following statements is correct? [NEET 2018]

(1) *Selaginella* is heterosporous, while *Salvinia* is homosporous.
(2) Stems are usually unbranched in both *Cycas* and *Cedrus*
(3) Ovules are not enclosed by ovary wall in gymnosperms
(4) Horsetails are gymnosperms

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**Q.8** Select the mismatch [NEET 2017]

(1) *Cycas* – Dioecious (2) *Salvinia* – Heterosporous

(3) *Equisetum* – Homosporous (4) *Pinus* – Dioecious

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**Q.9** Select the correct statement [NEET 2016 (Phase 1)]

(1) *Sequoia* is one of the tallest trees.

(2) The leaves of gymnosperms are not well adapted to extremes of climate.

(3) Gymnosperms are both homosporous and heterosporous.

(4) *Salvinia*, *Ginkgo* and *Pinus* all are gymnosperms.

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**Q.10** Conifers are adapted to tolerate extreme environmental conditions because of [NEET 2016 (Phase 2)]

(1) broad hardy leaves (2) superficial stomata

(3) thick cuticle (4) presence of vessels.

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**Q.11** In which of the following, gametophyte is not independent free living? [AIPMT 2015 (Cancelled)]

(1) *Pteris* (2) *Pinus*

(3) *Funaria* (4) *Marchantia*

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**Q.12** Besides paddy fields, cyanobacteria are also found inside vegetative part of : [NEET 2013]

(1) *Cycas* (2) *Psilotum*

(3) *Pinus* (4) *Equisetum*

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**Q.13** *Cycas* and *Adiantum* resemble each other in having [AIPMT 2012 (Prelims)]

(1) seeds (2) motile sperms

(3) cambium (4) vessels

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**Q.14** The gametophyte is **not** an independent, free-living generation in [AIPMT 2011 (Prelims)]

(1) *Polytrichum* (2) *Adiantum*

(3) *Marchantia* (4) *Pinus*

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**Q.15** A prokaryotic autotrophic nitrogen fixing symbiont is found in [AIPMT 2011 (Prelims)]

(1) *Alnus* (2) *Cycas* (3) *Cicer* (4) *Pisum*

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**Q.16** Which one of the following plants is monoecious? [AIPMT 2009]

(1) *Pinus* (2) *Cycas*

(3) Papaya (4) *Marchantia*

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**Q.17** Select one of the following pairs of important features distinguishing *Gnetum* from *Cycas* and *Pinus* and showing affinities with angiosperms. [AIPMT 2008]

(1) Perianth and two integuments

(2) Embryo development and apical meristem

(3) Absence of resin duct and leaf venation

(4) Presence of vessel elements and absence of archegonia

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**Q.18** In which one of the following male and female gametophytes do not have free living independent existence? [AIPMT 2008]

(1) *Polytrichum* (2) *Cedrus*

(3) *Pteris* (4) *Funaria*

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**Q.19** In gymnosperms, the pollen chamber represents [AIPMT 2007]

(1) a cavity in the ovule in which pollen grains are stored after pollination

(2) an opening in the megagametophyte through which the pollen tube approaches the egg

(3) the microsporangium in which pollen grains develop

(4) a cell in the pollen grain in which the sperms are formed

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**Q.20** Conifers differ from grasses in the [AIPMT 2006]

(1) formation of endosperm before fertilization

(2) production of seeds from ovules

(3) lack of xylem tracheids

(4) absence of pollen tubes

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**Q.21** Top-shaped multiciliate male gametes and the mature seed which bears only one embryo with two cotyledons, are characterised features of [AIPMT 2005]

(1) cycads
(2) conifers
(3) polypetalous angiosperms
(4) gamopetalous angiosperms

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**Q.22** Which one of the following is living fossil ? [AIPMT 2004]

(1) *Cycas* (2) Moss
(3) *Spirogyra* (4) *Saccharomyces*

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**Q.23** Which one of the following is categorised under living fossils ? [AIPMT 2003]

(1) *Cycas* (2) *Metasequoia*
(3) *Pinus* (4) *Selaginella*

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**Q.24** Which of the following plants produces seeds but not flowers? [AIPMT 2002]

(1) Maize (2) Mint (3) Peepal (4) *Pinus*

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**Q.25** *Cycas* has two cotyledons but not included in angiosperms because of [AIPMT 2001]

(1) naked ovules (2) seems like monocot
(3) circinate ptyxis (4) compound leaves

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**Q.26** Plant group with largest ovule, largest tree, and largest gametes is [AIPMT 2000]

(1) gymnosperm (2) angiosperm
(3) bryophyta (4) pteridophyta.

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## ANSWER KEY

| Ques. | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Ans. | **1** | **2** | **4** | **1** | **2** | **4** | **3** | **4** | **1** | **3** | **2** |
| Ques. | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 |
| Ans. | **1** | **2** | **4** | **2** | **1** | **4** | **2** | **1** | **1** | **1** | **1** |
| Ques. | 23 | 24 | 25 | 26 | | | | | | | |
| Ans. | **1** | **4** | **1** | **1** | | | | | | | |