Yakeen NEET 2.0 - 2026

Botany by Rupesh Chaudhary sir

Plant Kingdom

Practice Sheet - 03

1. Mosses
(A) predominant stage is gametophyte
(B) first stage is leafy and second is protonema
(C) leafy stage develop from primary protonema as a lateral bud
(D) leafy stage consist of upright slender axis bear spirally arranged leaves

2. Mosses
(A) Rhizoids : multicellular unbranched with oblique septa
(B) protonema stage bear sex organ
(C) antheridia and archegonia at the apex of leafy shoot
(D) vegetative reproduction by fragmentation and budding in primary protonema

3. Mosses
(A) zygote develop into foot sets capsule, haploid structure
(B) sporophyte is less elaborate than liverworts
(C) spore formed after mitosis
(D) have elaborate mechanism of spore dispersal
(E) funaria, polysophonia, sphagnum

4. Pteridophyte
(A) soil binder
(B) ornamental
(C) medicinal
(D) all

5. Pteridophyte
(A) embryo absent
(B) vascular tissue present in gametophyte
(C) include horsetail (equisetum)
(D) dominant body is gametophyte

6. Correct
A. Small leaf in selaginella (macrophyll)
B. large leaf in ferns (microphyll)
C. Cones present in all Pteridophyte
D. sporophyll bear sporangia
E. sporophyll aggregate to form cone in selaginella only
F. sporangia produce spore by mitosis in spore mother cell
(A) 1 (B) 2
(C) 3 (D) 4

7. Correct
(A) prothallus : small, multicellular, conspicuous
(B) prothallus - mostly photosynthetic, thalloid gametophyte, free living, dependent
(C) gametophyte require cool damp shady place to grow so distribution is unlimited
(D) gametophyte bear antheridia and archegonia

8. Correct
(A) all Pteridophyte are homosporus
(B) mostly are homosporus
(C) zygote develop into unicellular sporophyte
(D) selaginella and salvinia are hetrosporus

9. Correct
(A) zygote develop into embryo in female gametophyte
(B) this event is precursor to seed habit
(C) it is important step in evolution
(D) female gametophyte retained on parent sporophyte for variable period
(E) microspore (large) & megaspore (small) form male and female gametophyte respectively
(F) All are correct except (E)

.

Answer Key

1. (A, D)
2. (C)
3. (D)
4. (D)
5. (C)
6. (A)
7. (D)
8. (B, D)
9. (F)

PW Web/App - https://smart.link/7wwosivoicgd4

Library- https://smart.link/sdfez8ejd80if