

MISSION M.B.B.S

Date: 31/08/2022

Subject: BOTANY

Topic : PLANT KINGDOM L6

Class: Standard XI

Instructions:

A

1. Which of the following sequences is correct with regard to the life cycle of pteridophytes?
 - A. Gametophyte, spores, meiosis, sporophyte
 - B. Sporophyte, meiosis, spores, gametophyte
 - C. Sporophyte, mitosis, gametes, zygote
 - D. Gametophyte, meiosis, gametes, zygote

2. Which of the following plants produces cones or strobili?
 - A. *Funaria*
 - B. *Sphagnum*
 - C. *Equisetum*
 - D. *Pteris*

3. Which of the following is a heterosporous plant?
 - A. *Pteris*
 - B. *Adiantum*
 - C. *Salvinia*
 - D. *Dryopteris*

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4. Prothallus is
 - A.** dependent
 - B.** lacks sex organs
 - C.** requires a damp place to survive
 - D.** achlorophyllous

5. Pteridophytes resemble bryophytes in
 - A.** having dominant sporophytic phase
 - B.** having multicellular parasitic gametophyte
 - C.** having multicellular free living gametophyte
 - D.** having vascular tissues

6. Gametophyte and sporophyte are free-living in
 - A.** *Funaria*
 - B.** *Pteris*
 - C.** *Marchantia*
 - D.** *Polytrichum*

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7. Match the following:

Column I	Column II
A. Lycopsida	1. <i>Equisetum</i>
B. Sphenopsida	2. <i>Psilotum</i>
C. Pteropsida	3. <i>Adiantum</i>
D. Psilopsida	4. <i>Selaginella</i>

- A.** A-1, B-2, C-3, D-4
- B.** A-4, B-3, C-2, D-1
- C.** A-4, B-1, C-3, D-2
- D.** A-4, B-3, C-1, D-2

8. In pteridophytes, meiosis occurs during

- A.** gamete formation
- B.** zygote formation
- C.** spore formation
- D.** both a and c

9. What will be the number of chromosomes in prothallus, antheridium, antherozoids, spores, if the cell of the archegonium of a fern plant has 20 chromosomes?

- A.** 20, 20, 20, 20
- B.** 40, 40, 40, 40
- C.** 20, 20, 40, 40
- D.** 40, 40, 20, 20

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10. Which among the following is a hydrophytic pteridophyte?

- A.** *Lycopodium*
- B.** *Equisetum*
- C.** *Azolla*
- D.** *Selaginella*