

Quadrant IV – Assessment (Module –wise)

Programme: Bachelor of Science (First Year)

Subject: Botany

Paper Code: BOC 102

Paper Title: Biodiversity II (Vascular Plants)

Unit: Pteridophytes

Module Name: Sexual reproduction of *Psilotum*

Module No: 08

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MCQ

1. Identify the INCORRECT alternative about *Psilotum* prothallus.
 - a. It is monoecious.
 - b. It is saprophytic.
 - c. It is sporophytic.
 - d. It is a minute structure.
2. Identify the INCORRECT alternative about *Psilotum* antherozoids.
 - a. They are multiflagellate.
 - b. They are spirally coiled.
 - c. They are produced in the antheridium
 - d. They are produced on the sporophyte.
3. In *Psilotum* the male gametes are _____.
 - a. Aflagellate
 - b. Uniflagellate
 - c. Biflagellate
 - d. Multiflagellate

4. A prothallus is covered by _____.
- Archeogonia
 - Antheridia
 - Rhizoids
 - All the above

Completion type (fill-in-the-blanks)

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Short Answer – I (short notes - say 20 to 50 words)

- Write a short note on ‘alternation of generation in *Psilotum*’.
- Describe the structure of mature prothallus in *Psilotum*.
- Describe the structure of antheridium in *Psilotum*.
- Describe the structure of archegonium in *Psilotum*.
- Describe the features of young sporophyte in *Psilotum*.

Short Answer – II (extended – say 50 to 100 words)

- Explain the process of sexual reproduction in *Psilotum*

Matching type

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Numerical/Problems to Solve

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Self-reflection

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Create something new (higher order cognition)

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