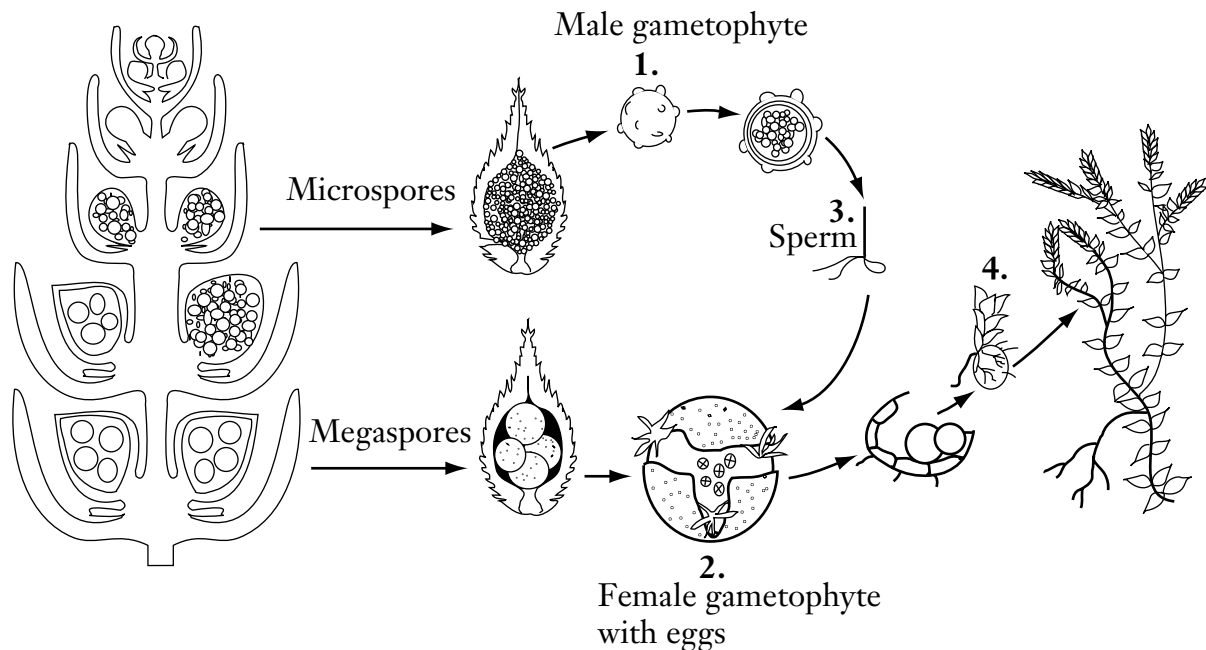


CHAPTER 25 FERNS AND GYMNOSPERMS

Section 25.1 Seedless Vascular Plants

Study the Diagram



Life Cycle of a Lycophyte

Seedless vascular plants are found in moist and warm regions of the world. The moisture is necessary to help the sperm move from one place to another during fertilization. There are three groups of seedless vascular plants; lycophytes, sphenophytes, and pterophytes. They all have two forms or stages in their life cycles called the **gametophyte** and the **sporophyte**.

Each statement below goes with one of the stages of the lycophyte life cycle shown in the diagram. Write the number from the diagram on the line in front of the statement it goes with.

- _____ Sperm swim to the eggs, and fertilization takes place.
- _____ Microspore develops into a male gametophyte with sperm.
- _____ Megaspore develops into a female gametophyte with eggs.
- _____ New sporophyte develops from the fertilized egg.

Answer the questions.

1. **True or false?** The sperm of seedless vascular plants do not need water to fertilize the eggs.

2. **True or false?** All seedless vascular plants have a gametophyte stage.
