

# ***Life Sciences, Grade 11, Biodiversity of Plants***

## **Written questions**

### **Question 1: Plant Classification and Structures**

- 1.1 Define the terms "Vascular Tissue" and "Thallus" as they relate to plant biology.
- 1.2 Identify the structures that anchor non-vascular plants like mosses and explain their function.
- 1.3 Distinguish between the "Gametophyte" and "Sporophyte" generations in a plant's life cycle, particularly noting their ploidy levels and dominance in mosses.

### **Question 2: Reproduction in Plants**

- 2.1 Explain the process of "Fragmentation" as a method of asexual reproduction in plants.
- 2.2 Describe the roles of the "Antheridium" and "Archegonium" in bryophyte reproduction.
- 2.3 Discuss two advantages and two disadvantages of asexual reproduction in plants.

### **Question 3: Plant Adaptations and Pollination**

- 3.1 Explain why plants that rely on wind for pollination often have small, green flowers with no scent or nectar.
- 3.2 Describe two distinct adaptations of flowers that are pollinated by insects, explaining how each adaptation aids in pollination.
- 3.3 Compare and contrast the advantages of sexual and asexual reproduction in plants, focusing on genetic variation and survival in changing environments.