

BOWEN UNIVERSITY IWO
COLLEGE OF AGRICULTURE, ENGINEERING, AND SCIENCE
PURE AND APPLIED BIOLOGY PROGRAMME
2022/2023 FIRST SEMESTER EXAMINATION
BLY 217: BIOLOGY OF SEEDLESS PLANTS

Instruction: Answer question ONE and any two others.

Time allowed: 2 h 20 min.

1.
 - a) Using a well-illustrated and labelled diagram, describe a generalized moss plant and state the functions of the labelled parts. *(10 marks)*
 - b) State five (5) biological importance of the bryophytes. *(5 marks)*
 - c) Give a detailed description of lichens based on life form. *(15 marks)*

2. Describe the modes of reproduction and reproductive structures in lichens. *(20 marks)*

3. Provide a detailed account of the diagnostic features and the mode of reproduction in the pteridophyte genus, *Lycopodium*. *(20 marks)*

4. Explain the following terms as it occurs in the algae with seven (7) examples each:
 - (a) Vegetative reproduction *(10 Marks)*
 - (b) Asexual reproduction *(10 Marks)*

5. Write brief notes on:
 - (a) Similar features shared by bryophytes and vascular (higher) plants. *(10 marks)*
 - (b) Different kinds of stele found in the pteridophytes. *(10 marks)*