

Mid-West University  
Examinations Management Office  
Surkhet, Nepal  
Final Examinations -2079

Bachelor level/ B.Sc/ 1<sup>st</sup> Semester  
Time: 3hrs

Full Marks : 60  
Pass Marks.: 30

**Subject M Cryptogams (BOT411/311)**

Candidates are required to give their answer in their own words as far as practicable. The figures in the margin indicate full marks.

**Group – A**

**long questions: (Attempt any Four) [4x8 = 32]**

1. Explain the life cycle of *Albugo* with well labeled diagram.  
Name the disease caused by *Albugo*. [7+1]
2. Give general account on range of thallus of algae and explain the economic importance of algae. [5+3]

OR

Explain the structure of sporophyte of *Porella* and list out any three differences between the sporophyte of *Porella* and *Sphagnum*. [5+3]

3. Define alternation of generation. Describe the life cycle of *Lycopodium* with diagrammatic cycle. [1+7]
4. Discuss the reproduction of *Riccia* (diagrammatic life cycle is necessary). [8]

**Group – B**

**Short questions : (Attempt any Seven) [7x3=21]**

5. Explain the sexual reproduction of *Chlamydomonas* with suitable diagram.
6. Draw the well labeled diagram of V.S. of apothecium.
7. Draw the diagrammatic life cycle of *Anthoceros*.
8. Write short note on asexual reproduction of bryophyte.
9. Explain the structure of sex organ of *Chara*.
10. Draw the T.S. of stem of *Lycopodium*.

OR

Describe the stellar system with diagram.

11. Explain the structure of strobilus of *Equisetum*.

**Group – C**

**very short questions. (Attempt any Seven) [7x1 =7]**

12. Why bryophyte is called amphibian plant?
13. Name the reserve food material of fungi.
14. Write difference between homospory and heterospory.
15. Write the peculiar features of lichen.
16. Draw the simple sketch of thallus of *Vaucheria*.
17. What is the crucial role of elater on capsule?
18. How the amyllum starch is form?
19. Mention the function of dolipore.
20. What do you mean by cleistothecium?

**THE END**