Mid-West University

Examinations Management Office

End Semester Examination 2081

Bachelor level/ B. Sc. / 1st Semester | Full Marks: 60

Time: 3 hours | Pass Marks: 30

Subject: 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 answer questions. **[4x8 = 32]**

1. Discuss briefly the life cycle of *Albugo* with well label diagram.
2. Discuss ecological and economical importance of pteridophyte.
3. Compare reproductive structures of *Batrachospermum* and *Fucus*.
4. Explain the anatomy of stem of *Eqisetum* with well labelled diagram

OR

Describe life cycle of *Riccia* with figure.

Group B

Answer the following questions in short. **[7x3 = 21]**

5. Emphasize on reproductive structures in *Chara*.
6. Describe anatomy of thallus of *Anthoceros*.
7. Show the diagrammatic life cycle of *Puccinia*.
8. Mention the similarities and dissimilarities between algae and fungi.
9. Give an account of stelar system found in pteridopytes.
10. Discuss in brief; On origin and evolution of bryophytes.
11. Describe vegetative structure of *Sphagnum*.

OR

Discuss economic importance of lichens.

Group C

12. Answer the following questions in very short (*any seven*) **[7x1 = 7]**
    a) Define fruticose lichen with an example.
    b) Classify *Riccia*.
    c) What is function of pyrenoid?
    d) Mention the reserve food material of Rhodophyceae.
    e) What is synangium?
    f) What is coenocytic thallus?
    g) Define dolipore.
    h) Draw simple sketch of L.S. of sporogonium in *Porella*.
    i) Why Pteridophytes are called vascular cryptogams?

The End