

# **M.Sc. (FINAL) BOTANY**

## **PAPER-VIII A BIOLOGY OF BRYOPHYTES**

### **UNIT-I**

1. Introduction, characteristics and classification.
2. Evolution of gametophyte and sporophyte of bryophytes
3. Reproduction :
  - a. asexual
  - b. sexual

### **UNIT-II**

4. A comparative study of the various orders of :
  - a. Hepaticopsida
  - b. Anthocerotopsida
  - c. Bryopsida
5. Regeneration studies
6. Ecology

### **UNIT-III**

7. Bryophytic flora of Rajasthan
8. Contribution of Indian Bryologists :
  - a. SR Kashyap
  - b. SK Pande

c. Ram Udar

d. PN Mehra

9. Cytology and cytogenetics.

10. Spore morphology, germination and interrelationships in mosses

### **UNIT-IV**

11. Morphogenetic studies with special reference to:

- a. Protonema and mechanism of bud formation
- b. Physiology of rhizoid formation

12. Physiology of reproduction

### **UNIT-V**

13. Origin of Bryophytes

14. Economic importance

15. Microtechniques in bryological studies