

Roll No. ....

(07/22-II)

**5184**

**B.Sc. EXAMINATION**

(Second Semester)

**BOTANY**

Paper I

Diversity of Archegoniates

*Time : Three Hours*

*Maximum Marks : 40*

**Note :** Attempt *Five* questions in all, selecting *two* questions from each Unit. Q. No. 1 is compulsory. All questions carry equal marks.

1. (a) Which is the dominate phase in the life-cycle of Bryophyta ?
- (b) What is the common name of Anthoceros ?
- (c) What is the main function of foot of Sporogonium ?
- (d) Name *two* vascular crytogames.

- (e) Define Apogamy.
- (f) Define Stele.
- (g) Name the class of Selaginella.
- (h) Define exoscopic development of Embryo.  $8 \times 1 = 8$

### Unit I

2. Give an account of structure of Thallus of Marchantia. 8
3. Give the diagrammatic representation of life-cycle of Marchantia. 8
4. Give an account of Gametophyte of Anthoceros with necessary diagram. 8
5. Enumerate significance steps in the life-cycle of Funaria. 8

### Unit II

6. Give a brief account of external and internal features of Rhinia. 8

7. Draw well labelled sketches in Selaginella :
- (a) L.S of Strobilus 4
  - (b) T.S. Root. 4
8. What is the Alternation Generation ? Explain it in life-cycle of Equisetum. 8
9. Describe reproduction in Pteris by Spores. 8