

B.Sc. I - Semester Examination**CBS-Is/8(P)****224458****BOTANY****Course No. : UBOTC-101**

Time Allowed- 2½ Hours

Maximum Marks-80

Note : There are **three** sections in the question paper. Attempt **all** questions from **Section-I** and **Section-II** and any **two** questions from **Section-III**.

SECTION-I

1. Write short notes on the following. (3×5=15)
- Transduction in bacteria.
 - Nannandrium form of *Oedogonium*.
 - Characteristics features of Deuteromycotina.
 - Structure of female reproductive organ of *Marchantia*.
 - Sporocarp of *Marvilea*.

SECTION-II

- Give a brief comparative account of *Mycoplasma* and bacteria. (7)
- Briefly describe the life history of *Chara*. (7)
- Write a note on the economic importance of fungi. (7)
- With help of well labeled diagram describe the internal structure of sporophyte of *Anthoceros*. (7)
- Describe the structure of stem of *Equisetum* as seen in transverse section. (7)

SECTION-III

- Write an essay on the economic importance of bacteria. (15)
- Write important features of Rhodophyceae and describe the life history of *Polysiphonia*. (15)
- Describe the various kinds of spores produced during the life history of *Puccinia*. (15)
- Discuss the evolution of sporophyte in Bryophytes and write a note on the importance of bryophytes in horticulture and geobotanical prospecting. (15)
- With help of suitable diagrams describe the morphology and reproduction in *Selaginella*. (15)

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