2023

B.A./B.Sc.

First Semester

GENERIC ELECTIVE - 1

BOTANY

Course Code: BOG 1.11

(Biodiversity: Microbes, Algae, Fungi & Archegoniate)

Total Mark: 70 Pass Mark: 28

Time: 3 hours

Answer five questions, taking one from each unit.

UNIT_I

1. Give an account on the following with appropriate diagram: $7\times2=14$

(a) Lysogenic replication in virus

(b) Conjugation in bacteria

2. Write notes on the following:

 $7 \times 2 = 14$

(a) Economic importance of bacteria and virus

(b) Generalized transduction in bacteria with diagram

UNIT-II

3. Write notes on the following:

 $7 \times 2 = 14$

(a) Economic importance of algae

(b) Morphology of Chlamydomonas

4. Give an account on the ecology and distribution of algae.

14

UNIT-III

5. Write notes on the following:

 $7 \times 2 = 14$

- (a) Mycorrhiza and its significance
- (b) General characters of fungi
- 6. Give an account on the life cycle of *Puccinia* with appropriate diagram.

10+4=14

UNIT-IV

7.	Describe the morphology and anatomy of Funaria with labelled	
	diagram.	14
8.	Write notes on the following: (a) Adaptations to land habit(b) General characteristics of bryophytes	7×2=14
UNIT-V		
9.	Give an account on the following: (a) Morphology and anatomy of <i>Selaginella</i>(b) Heterospory	7×2=14
10.	Write notes on the following:(a) Morphology of <i>Cycas</i>(b) Economic importance of gymnosperms	7×2=14