### 2022

## 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. Describe the general structure of a virus and discuss its economic importance.
- 2. Write short notes on the following:

 $7 \times 2 = 14$ 

14

- (a) Conjugation in bacteria
- (b) RNA virus

#### UNIT-II

3. Give an account on the range of thallus organisation in algae.

7×2=14

14

- 4. Write short notes on the following:
  - (a) Life cycle of Fucus
  - (b) General characteristics of algae

## **UNIT-III**

- 5. Explain the developmental stages and salient features on the life cycle of *Agaricus*. 14
- 6. Write short notes on the following:

 $7 \times 2 = 14$ 

- (a) Reproduction in fungi
- (b) Significance of lichens

# **UNIT-IV**

7.	Describe the morphology and anatomy of <i>Marchantia</i> with labelled	
	diagrams.	14
8.	Write short notes on the following: <ul><li>(a) Alternation of generations in bryophytes</li><li>(b) Unifying features of archegoniates</li></ul>	7×2=14
UNIT-V		
9.	Discuss briefly the stelar types and its evolution in pteridophytes.	14
10.	<ul><li>Write short notes on the following:</li><li>(a) Reproduction in <i>Pinus</i></li><li>(b) Morphological features of <i>Cycas</i></li></ul>	7×2=14