2022

M.Sc.

First Semester

CORE - 01

BOTANY

Course Code: MBOC 1.11 (Microbiology & Algae)

Total Mark: 70 Time: 3 hours Pass Mark: 28

Answer five questions, taking one from each unit.

UNIT-I

1.	Write notes on the following:(a) Criteria for algal classification(b) Reproduction in Chlorophyta	7×2=14		
2.	Describe the range of thallus organization in algae.	14		
UNIT–II				
3.	Write a note on the following:(a) Types of pigments in algae(b) Food reserves in algae	7×2=14		
4.	Explain the types of flagellar structures in algae with suitable dia	grams. 14		
	UNIT–III			
5.	Write notes on the following:(a) Algal ecology(b) Algae as biological monitor of water pollution	7×2=14		
6.	Write a note on the following: (a) Techniques of culturing algae	7×2=14		

(b) Symbiotic algal association

UNIT-IV

7.	Give an account on the following:(a) Micro-organisms used in food industry(b) Gene transfer mechanisms	7×2=14	
8.	Write notes on the following:(a) Fermentation and food preservation(b) Production of antibiotics	7×2=14	
	UNIT-V		
9.	Write an account on the following:(a) Interaction between microbes and roots of higher plants(b) Biofertilizers	7×2=14	
10.	Write an account on the following:(a) Nitrogen fixation(b) Microbial succession	7×2=14	