2023

M.Sc.

First Semester

CORE - 01

BOTANY

Course Code: MBOC 1.11 (Microbiology & Algae)

Total Mark: 70 Pass Mark: 28

Time: 3 hours

Answer five questions, taking one from each unit.

UNIT_I 1. Write a note on classification of algae and the criteria used. 10+4=142. Write notes on the following: $7 \times 2 = 14$ (a) Reserve food material in various groups of algae (b) Light harvesting pigments in algae UNIT-II 3. Write a general account on the thallus organization in algae. 14 4. Write notes on the following: $7 \times 2 = 14$ (a) Reproduction in Chlorophyceae (b) Range of thallus organization in Rhodophyceae UNIT-III 5. Write notes on the following: $7 \times 2 = 14$ (a) Use of algae in agriculture (b) Techniques of culturing algae 6. Write a note on the following: $7 \times 2 = 14$ (a) Use of algae as environmental indicators

(b) Economic importance of algae

UNIT-IV

7.	Write an account on the following: (a) Importance of microorganisms in the production of alcohol(b) Role of microbes in food spoilage	7×2=14
8.	(a) Why do xenobiotic compounds need to be degraded by microorganisms?(b) Give an account on mycotoxins and their harmful effects.	7 7
	UNIT-V	
9.	Give an account on the importance of microbial succession in o its impact on our health.	ur gut and 10+4=14
10.	Give an account on the following: (a) Various measurement methods of microbial growth(b) Effect of pH and temperature on microbial growth	7×2=14