Reg. No.:	Life cycle of Sargassum is
(6 pages) Code No. : 30526 E Sub. Code : CMBO 11	(a) Haplontic (b) Diplontic
Code No. 1 00020 2	(c) Diplohaplontic (d) Haplodiplontic
B.Sc. (CBCS) DEGREE EXAMINATION, NOVEMBER 2023.	4. In which algae carpospores are seen?
First Semester	(a) Sargassum (b) Volvox
Botany — Core	(c) Caulerpa (d) Gracilaria
ALGAE AND BRYOPHYTES	5. The algae used in space travel is
(For those who joined in July 2021–2022)	(a) Chara (b) Sargassum
Time: Three hours Maximum: 75 marks	(1) (1) 1
PART A — $(10 \times 1 = 10 \text{ marks})$	(6) 1405000
	6. Carrageenin is obtained from
Answer ALL questions. Choose the correct answer.	(a) Volvox (b) Chlorella
	(c) Nostoc (d) Chondrus
 Fritsch divided algae into ———— classes (a) 6 (b) 9 	7. The alga which is used as Biofertilizer is
(c) 12 (d) 11	a) Guinnline
2. Coenobium type of colony is seen in this alga	(a) 1405000
(a) Caulerpa (b) Nostoc	(c) Chara (d) Sargassum
(c) Volvox (d) Sargassum	Page 2 Code No. : 30526 E
8. Spirulina belongs to ———————————————————————————————————	12. (a) Describe the external structure of Sargassum thallus with suitable diagram.
(a) Cyanophyceae (b) Chlorophyceae	
(c) Xanthophyceae (d) Rhodophyceae	Or
9. An example for liverwort is	(b) Describe the structure of cystocarp of Gracilaria with suitable diagram.
(a) Marchantia (b) Anthoceros	13. (a) Explain the methods of extraction of Agar
(c) Porolla (d) Funaria	13. (a) Explain the methods of extraction of Agar agar.
10. In marchantia vegetative reproduction takes place	
by means of	Or
(a) Scales (b) Rhizoids	(b) List out the uses of Carrageenin.
(c) Roots (d) Gemmae	14. (a) Describe the structure of Spirulina.
PART B — $(5 \times 5 = 25 \text{ marks})$	Or
Answer ALL questions, choosing either (a) or (b).	(b) Write the economic importance of Nostoc.
Each answer should not exceed 250 words.	- under the second distance takes
11. (a) Criticize the general characters of Algae.	15. (a) Describe how vegetative reproduction takes place in Marchantia.
Or	Or
(b) Explain the external structure of Caulerpa thallus.	(b) Classify the Bryophytes according to Rothmaler.

PART C — $(5 \times 8 = 40 \text{ marks})$

Answer ALL questions, choosing either (a) or (b).

Each answer should not exceed 600 words.

Classify the algae according to Fritsch. (a)

- Describe the life cycle patterns of Algae.
- 17. Describe how sexual reproduction takes (a) place in Chara.

- Criticize about reproduction in Sargassum. (b)
- Write an essay on the cultivation of 18. (a) Gracilaria.

Or

- Give an account on the economic importance of Algae.
- Explain the mass culture of Nostoc. 19. (a)

Or

Describe the cultivation of Spirulina in large scale.

Page 5 Code No.: 30526 E

With a neat diagram explain the structure of marchantia antheridiophore archegoniophore.

Or

20.

(b) Describe the structure of Marchantia sporophyte.

Page 6 Code No.: 30526 E