(6 p	ages)		Re	g. N	o . :	1			
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	В.	Sc. (CBCS) D NOV	EGRE EMB			OITA	N,		
		Fi	rst Se	meste	er				
		Во	tany -	— Co	re				
		ALGAE A	ND B	RYO	PHYTE	S			
	(Fo:	r those who jo	ined i	n July	y 2021 c	nwa	rds)		
Tim	ne : Th	ree hours			Maxim	um :	75 marks		
		PART A -	- (10 ×	(1=)	l0 mark	s)			
		Answe							
	Cho	ose the correc	t ansv	wer:					
1.		many cla		are	there	in	Fritsch's		
	(a)	10		(b)	11				
	(c)	12		(d)	14				
2.	Volvox is a								
	(a)	(a) Colonial algae							
	(b)	Filamentous algae							
	(c)								
	(4)								

3.	Sar	Sargassum belongs to the class								
	(a)	Bacillariophyceae	Э							
	(b)	Pheophyceae								
	(c)	Rhodophyceae								
	(d)	Xanthophyceae								
1.	Con	Conceptacles are found in								
	(a)	Caulerpa	(b)	Sargassum						
	(c)	Gracilaria	(d)	Nostoc						
5.		Identify the seaweed which is widely cultivated for commercial uses								
	(a)	Fucus								
	(b)	Sargassum								
	(c)	Enteromorpha								
	(d)	Kappaphycus								
3.	Aga	Agar – agar is obtained from								
	(a)	Oscillatoria	(b)	Nostoc						
	(c)	Spirulina	(d) *	Gelidium						
7.	Sing	Single cell protein is obtained from								
	(a)	Osciliatoria	(b)	Vaucheria						

Spirulina

(d) Chlorella
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- 8. Which among the following is a good nitrogen fixer?
 - (a) Nostoc
- (b) Gracilaria
- (c) Oedogonium
- (d) Sargassum
- 9. Which among the following is a common feature of Bryophytes?
 - (a) Well developed root system
 - (b) Well developed sex organs
 - (c) Well developed shoot system
 - (d) Well developed vegetative organs for reproduction
- 10. The thalloid plant body is found in
 - (a) Marchantia
- (b) Sphagnum
- (c) Funaria
- (d) Salvinia

PART B — $(5 \times 5 = 25 \text{ marks})$

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

Each answer should not exceed 250 words.

11. (a) List down the classes of algae as proposed by F.E. Fritsch (1945).

Or

(b) Describe the internal structure of the assimilators of Caulerpa.

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12. (a) Analyse the economic importance of Gracilaria and Sargassum.

Or

- (b) Explain the organization of spermatangia in Gracilaria.
- (a) List down the requirements of seaweed cultivation.

Or

- (b) Why *Gracilaria* is commercially cultivated in large scale?
- 14. (a) Explain the morphology of Nostoc.

Or

- (b) Bring out the economic potential of Spirulina.
- 15. (a) Draw the male gametophyte of Marchantia.

Or

(b) Give the outline classification of Bryophytes as proposed by Rothmaler (1951).

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[P.T.O.]

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

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

Each answer should not exceed 600 words.

 (a) Write an essay on the general characters of algae.

Or

- (b) Critically examine any four life cycle patterns observed in algae.
- 17. (a) Describe the vegetative reproduction found in Chara.

Or

- (b) Explain the structure of the female conceptacle of Sargassum.
- 18. (a) How will you extract agar-agar from a seaweed?

Or

- (b) "Algae possess potential economic utility" Justify the statement with suitable examples.
- 19. (a) Highlight the commercial cultivation of Spirulina.

Or

(b) Are *Nostoc* suitable for commercial cultivation? Explain.

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20. (a) Critically examine the general characters of Bryophytes.

Or

(b) Describe the organization of sporophytes of Marchantia.

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