(6)	ages)	R	eg. No	o.:			
Co	de N	No. : 11645 E	Su	b. Code : SMBO 12			
	В	Sc. (CBCS) DEGR NOVEME					
		First Se	emeste	r			
		Botany	– Mai	n			
3 .		ALGAE AND I	3RYOI	PHYTES			
	(Fo	r those who joined	in July	2017 onwards)			
Tin	ne : Th	ree hours		Maximum: 75 marks			
		PART A — (10	× 1 = 1	0 marks)			
	i i	Answer AL	L ques	tions.			
		Choose the co	rrect a	answer.			
1.	It is	an example for pr	ocaryo	te alga			
100	(a)	Volvox	(b)	Chlorella			
	(c)	Chara	(d)	Nostoc			
2.	Coenobium type of colony is seen in this alga						
	(a)	Nostoc	(b)	Volvox			
	(c)	Caulerpa	(d)	Spirulina			

The	female sex o	organ	of	chara	is c	alled	
(a)	nucule						
(b)	globule	-					
(c)	amylum star					Ш	
(d)	archegonium						
The branches which bear the male and female sorgans in sargassum are ————.							
(a)	conceptacle						
(b)	receptacle						
(c)	paraphysis						
(d)	air bladder						
The algae which is used in space research is							
(a)	chlamydomona	as					
(b)	volvox						
(c)	chlorella						
(d)	nostoc						
Carrageenin is extracted from this alga.							
(a)	Sargassum	(b)	Gracil	aria		
(c)	Chondrus	(d)	Gelidi	um		

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Sp	irulina.					
(a)	Brackish					
(b)	Rain water					
(c)	River water					
(d)	None of these	270				
	is called	as Cya	nobacteria.			
(a)	Volvox	(b)	Nostoc			
(c)	Chara	(d)	Caulerpa			
The thallus of Merchantia has						
(a)	Haploid	'n		3		
(b)	Diploid					
(c)	Triploid					
(d)	None of these					
	rhomboidal area he Merchantia tha	CONTRACTOR OF THE PARTY OF THE	on the dorsal surfa	.ce 		
(a)	Gemma cup					
(b)	Areolae	111	310			
(c)	Scales					
(d)	Midrib		at Ma			

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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) Describe the structure of volvox colony.

0

- (b) List out the general characters of Phaeophyceae.
- (a) Describe the internal structure of Gracilaria Cystocarp.

Or

- (b) Explain the external structure of chara thallus with diagram.
- 13. (a) How can be Gracilaria cultured using raft culture technique?

Or

- (b) Write the extraction method of carrageenin.
- (a) Give a short note on external morphology of Nostoc.

Or

b) Give the therapeutic properties of Spirulina.

Page 4 Code No.: 11645 E [P.T.O.] (a) Write about the general characters of Bryophytes.

Or

(b) Describe the internal structure of Marchantia thallus.

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

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

Each answer should not exceed 600 words.

 (a) Explain with suitable examples, the life cycle patterns found in algae.

Or

- (b) Write in detail about the thallus structure and methods of reproduction in Caulerpa.
- (a) Explain the method of sexual reproduction of Chara.

Or

- (b) Describe the life cycle of Sargassum.
- (a) Discuss the method of extraction of Agar-Agar. Add a note on its uses.

Or

(b) Write an essay on the economic importance of Algae.

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 (a) Write in detail about the techniques related to the culture of spirulina, harvesting and drying.

Or

- (b) Explain the methods of mass culture of Nostoc.
- 20. (a) How bryophytes have been classified by Rothmaler?

Or

(b) Describe with diagrams, the longitudinal sectional view of anteridiophore and archegoniophore of Marchantia.

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