SEAT	No.	
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SARDAR PATEL UNIVERSITY

B.Sc. 5th SEMESTER, BOTANY US05CBOT01

(Algae, Bryophytes, Pteridophytes and Gymnosperms)

Date: 24/12/2020			Marks:70	
Thuysday	Thuygday Tim		Time: <u>೩</u> .00-գ.00p.r	
Q-1 Multiple choice	ce questions.		(10)	
(1) Algae are classifi	ed into major groups on th	ne basis of		
(a) vegetative characters		(b)types of	pigments	
(c) nature of reserve food products		(d) chemical composition of cell-wall		
(2) Which one of the	e following algae lacks sexi	ual reproduction?		
(a) Ectocarpus	(b) Chlamydomonas	(c)Nostoc	(d) Cladophora	
(3) A non-motile ase	exual cell is			
(a) zoospore	(b) aplanospores	(c) antherozoid	(d) none of these	
(4) Most economica	lly important bryophyte ar	mong the following is_	•	
(a) Riccia	(b) Funaria	(c) Marchantia	(d) Sphagnum	
(5) Elaters are found	d in the capsule of	*		
(a) Pellia	(b) Anthoceros	(c) Marchantia	(d) all of these	
(6) Father of Indian	bryology is			
(a) S.R.Kashyap	(b) S.K.Pande	(c) Ram Udar	(d) R.S.Chopra	
(7) The elementary	process of the telome con	cept is:		
(a) curvation	(b) reduction	(c) overtopping	(d) all of these	
(8) Heterospory is so	een in			
(a) Isotes	(b) Lycopodium (c) Psi	ilotum (d)	Equisetum	
(9) In gymnosperms	pollination is exclusively b	ру		
(a) Insects	(b0 wind	(c) water	(d) animals	
(10) Largest ovules,	trees and male gametes a	re found in		
(a) fungi	(b)algae	(c) bryophytes	(d)pteridophytes	
Q-2 Fill in the blank	s and True or False.	,	(08)	
(1) Advance oogamo	ous type of sexual reprodu	ction is seen in		
(2) A bryophyte diffe	ers from pteridophytes in_	·		
(3) Lanf induced apo	ogamy in			

(4) Turpentine is obtained from	
(5) Cladophora shows isomorphic life-cycle. (True/False)	
(6) Spore mother cell in bryophytes is diploid in nature. (True/False)	
(7)Ophioglossum is found in fresh water.(True/False)	
(8) In Cycas leaf-let monoxylic condition is found. (True/False)	
Q-3 Short answer questions. (Attempt any ten).	(20)
(1) What are the various types of spores found in algae?	
(2) Write the characters of- Myxophyceae.	
(3) What are the common pigments present in algae?	
(4) Write similarities between bryophytes and algae.	
(5) Write the contributions of Prof. Ram Udar.	
(6) Explain- Bryophytes as food.	
(7) Draw a labelled diagram of Dryopteris sporangium.	
(8) Differentiate between homospory and heterospory.	
(9) Write notes on- telomes and mesomes.	
(10) Give economic importance of Gnetum.	
(11) Define: Monoxylic wood.	
(12) Draw a labelled diagram of Gymnosperms ovule.	
Q-4 Long answer questions (attempt any four).	(32)
(1) Give a brief account on: Reproduction in algae.	
(2) Write an essay on: Economic importance of algae.	
3) Write about: Ecology and distribution of bryophytes.	
4) Explain: Vegetative reproduction in bryophytes.	
5) Write about: Elementory processes in pteridophytes.	
6) What is apogamy? Explain it.	
7) Describe characteristic features of gymnosperms.	
8) Write the similarities of gymnosperms with angiosperms.	