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SARDAR PATEL UNIVERSITY B.Sc. Examination 5th SEMESTER BOTANY-US05CBOT01

(Algae, Bryophyta, Pteridophyta and Gymnosperms)

Date: 11/11/2019, Monday Time: 10.00a.m.-1.00 p.m. Marks-70

Q-1 Multiple Choi	ce Questions.		(10)	
(1)A non-motile a	sexual cell is	_•		
(alanlanosnore	(h)zoospore	(c) an the rozoid	(d)none of these	
(2)Fusion of matu	re individuals whic	h directly act as ga	metes is called	- '
(a)isogamy	(b)hologamy	(c)autogamy	(d)conjugation	•
(3)Advanced oog	amous type of sexu	ial reproduction is s	seen in:	<u> </u>
(a)Ectocarpus	(b)Codium	(c)Oedogonium	(d)Cladophora	
(4)Spore mother	cell in bryophytes i	s:·	•	
(a)haploid	(b)tetraploid	(c)triploid	(d)diploid	i j
/5/Elaters are fou	ind in the capsule c	of:		
(a)Marchantia	(b)Pellia	(c)Anthoceros	(d)all of these	
(6)A bryophyte d	iffers from pterido	phytes in:		
(a)lack of vascula	ır tissues	(b)presence of a		
(c)flagellated ant	herozoids	(d)independent	gametophyte	-
(7)Homospory is	seen in:		7.13	
(a)Lycopodium	(b)Equisetum	(c)both	(d)none	
(8)Which of the	following structure	is not a part of the	sporangium in	-,
Dryopteris?			(1)	
(a)annulus	(b)stomium		(d)ramenta	
(9)In Cycas leafle	et, which condition	is found?	/ 1)	
(a)diploxyclic	(b)monoxylic	(c)both	(d)none	:
(10)A gymnospe	erm is a plant which)	le se alogad in ov	/ar\/
(a)bears flower			seeds enclosed in ov	aly
(c)produces see	eds in ovary (d)	has no vascular tiss	sues	
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Q-2Attempt any ten short answers questions.				
(i)What are the various types of spores found in algae?				
(ii)What are the common pigments present in algae?				
(iii) What are the characteristics of oogamous type of sexual reprodu	iction?			
(iv)Write similarities between bryophytes and algae. Name any two				
bryophytes.				
(v)Explain: Elaters and elaterophore.				
(vi)Write the structure and function of gemma-cup.				
(vii)Differentiate between homospory and heterospory.				
(viii)Write about: telomes and mesomes.				
(ix)Draw a labelled diagram of Dryopteris sporangium.				
(x)Write economic importance of Gnetum.				
(xi)Draw a labelled diagram of gymnosperm ovule.				
(xii)Write external characters of Welwitschia.				
Q-3Give a brief account on: Reproduction in algae.	(10)			
OR				
Q-3Write notes on: (a)Haplontic type of lifecycle of algae.	(05)			
(b)Algae as food and fodder.	(05)			
Q-4Give a brief account on: Economic importance of bryophytes.	(10)			
OR				
Q-4Write about: Ecology and distribution of bryophyte.	(10)			
Q-5Write any three elementary processes of telome theory.	(10)			
OR				
Q-5Describe: Prothallus of Dryopteris with sex-organs.	(10)			
OR				
Q-6Give the resemblances of gymnosperms with pteridophytes.	(10)			
OR OR				
Q-6Write characteristics feature of gymnosperms.	(10)			