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## SARDAR PATEL UNIVERSITY B.Sc.Examination; V Semester BOTANY-US05CBOT01

Algae, Bryophyta, Pteridophyta and Gymnosperms Date: 22/10/2018, Monday, Time: 10.00a.m.-1.00p.m.

			Marks-	70
Q-1 Choose th	ne correct answe	er:		(10)
(i) The algae	which grow in/on	snow are called:		
(a) endophy	tic (b) lithopl	nytic (c) cryophytic	(d) cryptophytic	
(ii) Which one	e of the following	g algae lacks sexual re	production?	
(a) Cladoph	ora (b) Chlamyo	lomonas (c) Nostoc	(d) Ectocarpus	
(iii) Advanced	d oogamous type	of sexual reproduction	n is seen in	
(a) Codium	(b) Ectocarpus	(c) Oedogonium	(d) Cladophora	
(iv) Which on	e of the followin	g bryophyte is commo	only known as peat	mosses?
(a) Pellia	(b) Sphagnum	(c) Marchantia	(d) Riccia	
(v) Multicellu	r articulate gemr	nae are found in:		
(a) Ulota	(b) Polytrichum	(c) Riccia	(d) Marchantia	
(vi) Protonem	a is a stage in the	e life cycle of	· ·	
(a) Spirogyra	a (b) Rhizopus	(c) Mosses	(d) Cycas	
(vii)The elem	entary processes	of the telome concept	is:	
(a) reduction	(b) curvation	(c) overtopping	(d) all the above	
(viii) Lang in	duced apogamy i	n	•	
(a) club-mos	ses (b) mosses	(c) ferns	(d) horsetails	
(ix) Largest or	vules, trees and n	nale gametes are found	d in	
(a) algae	(b) fungi	(c) angiosperms	(d) gymnosperms	S
(x)The gymno	sperms pollination	on is effected by:		
(a) wind	(b) water	(c) animals	(d) insects	•
		$\bigcirc$	,	(P-T.O)

Q-2Answer the following (any ten).	(20)		
(i) What is fragmentation?			
(ii) Write about-alginate.			
(iii) What are the various types of spores found in algae?			
(iv) Write the contributions of Prof.Ram Udar.			
(v) Write the structure and function of gemmacup.			
(vi) Explain-bryophytes as food.			
(vii) Draw a section of pinnule of Dryopteris through sorus.			
(viii) Describe the futile spike in Ophioglossum.			
(ix) Differentiate between homospory and heterospory.			
(x) Name the stages of embryogeny in gymnosperms.			
(xi) Write the economic importance of Gnetum.			
(xii) Define: monoxylic wood.	-		
Q-3Write notes on: (a) Heteromorphic life cycle in algae.	(06)		
(b) Filamentous form in algae.	(04)		
OR	(* ')		
Q-3 Write an essay on the origin and evolution of sexual reproduction in alg	gae.(10)		
Q-4 Write about: (a) ecology of bryophytes.	(06)		
(b) Distribution of bryophytes.			
OR	(04)		
Q-4 Describe: (a) Vegetative reproduction in bryophyte.	(06)		
(b)Uses of Sphagnum and the peat.	(04)		
Q-5 What is apogamy? Describe the various factors that play an important	,		
role in the induction of apogamy.	(10)		
OR	, ,		
Q-5 Describe the morphology and asexual reproduction in Ophioglossum.	(10)		
Q-6 Describe morphology of vegetative and reproductive organs of	,		
Gymnosperms.			
OR			
Q-6 Write an essay on economic importance of Gymnosperms.	(10)		

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