

## The Open University of Sri Lanka B.Sc./B.Ed Degree Programme-Level 03-2009/10 BOU 1200 – Diversity of Plants Assessment Test II(No Book Test)

Duration – One (01) hour	Reg.No
Date: 18 <sup>th</sup> April 2010	Time: 4.00 – 5.00 p.m.
Answer all questions on this paper itself.	
This paper contains four(04) questions and	l six(06) pages.
1. a. List three (03) adaptations shown by habitat to land habitat.	y Bryophytes when transferring from water
•••••••••••••••••••••••••••••••••••••••	
b. Fill in the following table with	suitable word/s.

Character	Hepatophyta	Anthocerophyta	Musci
Development of protonema		S Printing in (E(I) avil in	rob strikt in
Presence of Columella			
Presence of pseudopodium			
Mode of dehiscence of capsule	classified into two may	salxibs emp) be saevin fenes tetw no be	Rom of the

i.	Chimney pore -
ii.	Rhizoids
iii.	Gemmae
iv.	Elaters
v.	Calyptra
	2. a. State five (05) primitive features seen in the oldest members (Division-Psilopsida) of
	vascular plants.
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	h Name the autolicies Comme C1
	b. Name the only living Genus of horsetail.
	o. Name the only living Genus of norsetall.
	c. Write down five (05) important characteristics of horsetails.
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c. Write one major function of the following in relation to Marchantia.

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	e.	With the help of two labeled line diagrams, illustrate the above types in part "d"
		with one example each in the space below.

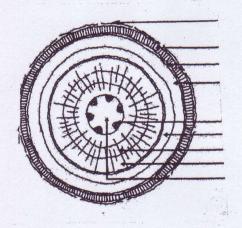
3. a. Fill in the following table with suitable word/s.

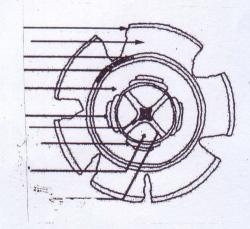
Characteristic feature	Monocot	Dicot	
Cotyledons		26/18/28 VR	
Leaf venation	14 x 14 x 16 x 17	your the continues of the	
No. of flower parts	**************************************	and the same of the second	
Primary vascular bundle in stem	13000 3 A 1 1 1 1 - 2 - 2 - 2 -	**************************************	
Presence of secondary growth	111000000000000000000000000000000000000		
Type of root system			
Nature of pollen grains			

	espy konde alla sistema in a	ministra de la	
mple	raceme	Umbel	Corymb
pitul	um	Scorpioid cyme	Helicoid cyme
apitul	um	Scorpioid cyme	Helicoid cyme
Give t	two important features that ag agents. (Give one examp	help for the dispersal of fruit	
	two important features that ag agents. (Give one examp)  By wind	help for the dispersal of fruit le for each of the feature).	s and seeds by each of th
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Give t llowin i.	by wind  Eg.  By animals  1.  Eg.	help for the dispersal of fruit le for each of the feature).	s and seeds by each of the

iii.	Ву	water
	1.	
		Eg
	2.	
		Eg

**4.** The following line diagrams are the cross sections of a dicot stem and a dicot root after the secondary growth. Label them fully.





Secondary growth in Dicot stem

Secondary growth in Dicot root