This question	paper contains 4 printed pages]		
	÷	Roll No.	
S. No. of Quest	ion Paper : 1558		•
Unique Paper C	Code : 216453		<b>c</b> .
Name of the Pa	per : LSPT-408 : Biodiver	sity III-Plants	
Name of the Co	urse : B.Sc. (Prog.)		
Semester	: <b>IV</b>		
Duration: 3 Hours			Maximum Marks: 75
(Wri	te your Roll No. on the top immedi	ately on receipt of th	nis question paper.)
	Attempt five qu	sestions in all.	·
	Q. No. 1 is	compulsory.	
	All questions car	ту equal marks.	•
1. (a) Def	ine (any five):		5
(i)	Protostele		
(ii)	Ligule		•
(iii)	Capitulum		
(iv)	Sporocarp	•	
(v)	Carinal canal		
(vi)	Protonema		
(vii)	Lint.		

	(b)	Match the following:	5	
		'A'	<b>'В'</b>	
		Caryopsis	Chloroplast	
		Coenosorus	Cycas	
		Palisade parenchyma	Pteris	
		Compound umbel	Poaceae	
		Transfusion tissue	Fennel	
	(c)	Fill in the blanks:	5	
		(i) Equisetum is commonly known	as	
		(ii) Blue green algal association is found in of Cycas.		
		(iii) Top-shaped, spiral flagellate microspore is found in		
		(iv) Tectona grandis belongs to fam	ly	
		(v) Lemma is the modification of		
2.	Drav	w labeled diagrams of any three:	. 15	
	(a)	T.S. needle of Pinus	,	
	(b)	V.S. leaflet of Cycas		
	(c)	V.S. of isobilateral leaf		

	(d)	L.S. sporophyte of Funaria	
	(e)	T.S., stem of Selaginella.	
3.	Writ	te short notes (any three) :	15
	(a)	Amphibian nature of bryophytes.	
	(b)	Collenchyma	
	(c)	Importance of heterospory	
	( <i>d</i> )	Cycas as a living fossil	
	(e)	Economic importance of wheat.	-
4.	Diff	erentiate between (any three):	. 15
	(a)	Natural and phylogenetic system of classification	
	( <i>b</i> )	Apogamy and apospory	
	(c)	Protoxylem and metaxylem	
	(d)	Male cone of Cycas and Pinus	
	(e)	Elaters of Marchantia and Equisetum.	
5.	(a)	Discuss the Bentham and Hooker's system of classification. Discuss why it is s	still
		used in identification of plants.	5
•		P.T	.O.

	(b)	Expand (any two) of the following:	2
		(i) Linn.	
		(ii) Hook.f.	
		(iii) D.C.	
	(c)	Comment on artificial system of classification.	3
	(d)	Give Botanical names and uses of rice and jute.	5
6.	(a)	Explain briefly the stelar evolution in Pteridophytes.	5
	(b)	Write characteristic features of Pteridophytes.	5
	(c)	Describe asexual reproduction in Marchantia.	5