This questio	n paper	contains 4	printed	pages.	1
--------------	---------	------------	---------	--------	---

## 5193B

Your Roll No. .....

## B.Sc. (Hons.)/B.Sc. Prog. Life Scs./IV Sem. B Paper – LSPT-408

Biodiversity-III – Plants (Admissions of 2010 and onwards)

Time: 3 Hours

Maximum Marks : 75

(Write your Roll No. on the top immediately on receipt of this question paper.)

Answer five questions in all. Q. No. 1 is compulsory. All parts of a question must be answered together.

1. (a) Define any five of the following:

5

- (i) Trabeculae
- (ii) Coenosorus
- (iii) Capitulum
- (iv) Peristome
- (v) Polyembryony
- (vi) Transfusion tissue
- (vii) Epipetalous

	(b)	Matc	h the fo	ollowing:					5
		A			В				
		Axile	place	ntation	Poace	eae			
		Selag	inella		Resir	ו			
		Pine			Proto	nema	a		
		Funa	ria		Liqui	le			
		Cary	opsis		Solar	nacea	e		
	(c)	Write		botanical	name	and	family	of	any 5
		(i)	Rice						
		(ii)	Groun	dnut					
		(iii)	Fennel	!					
		(iv)	Coffee	<b>;</b>					
		(v)	Cotton	1					
		(vi)	Musta	rd					
2.	Dra	w labe	elled di	iagrams of	any <b>th</b> r	ee :			15
	(i)	L.S.	Marcl	<i>iantia</i> spor	ophyta				
	(ii)	L.S.	Selagi	<i>inella</i> strob	ilus				
	(iii)	V.S	. Preri.	s sporophy)	11				
	(iv)	T.S.	Cycas	coralloid r	oot				
51	93B			. 2	•				

3.	Writ	e short notes on any three:	15
	(i)	Adaptations of bryophytes to land habit	
	(ii)	Heterospory	
	(iii)	Sporangiophore of Equisetum	
	(iv)	Cycas ovule	
4.	Diff	erentiate between any five :	15
	(i)	Collenchyma and sclerenchyma	
	(ii)	Natural and phylogenetic systems of classificati	on
	(iii)	Tracheids and vessels	
	(iv)	Monocot and Dicot stems	
	(v)	Antheridiophore and archegoniophore Marchantia	of
	(vi)	Microsporophyll of cycas and pinus	
5.	(i)	Discuss why Bentham and Hooker's system classification is considered as a natural system.	of 5
	(ii)	Describe the floral characters of Solanaceae a Brassicaceae.	ınd 5
	(iii)	Name the part used and list the important uses Black pepper and Teak.	of 5
6.	(i)	Explain the methods of asexual reproduction Marchantia.	in 5

3

[P.T.O.

5193B

- (ii) Equisetum shows xerophytic and hydrophytic characters. Comment. 5
- (iii) Give an account of general characters of Gymnosperms. 5