	16			100	121	W	10	
(i). Printed	Pages: 3	= (%)	Roll No					
(i:\	ons : 9	Sub.	Code :	1	7	2	5	4
		Exam.	Code:	[0	0	0	3
	4							
	B.A./B.Sc	. (Gener	al) 3 rd Sen	neste	er			
		(212	4)					
‡		BOTA	NY					
Paper-B	: Structur	e Develo	pment & F	Repr	odu	ction	in	
	Floweri	ng Plant	s–I					
Time Allowe	d: Three	Hours]	[Ma	ximu	ım l	Mar	ks :	36
Note :—(1)	Attempt F	IVE que	stions in al	l.				
(2)			ory. Attempt m each unit		moi	e qu	estio	ns,
(3)	Draw diag	grams wł	nerever nec	essar	y.			
1. (A) Fill	in the blan	nks :						
(i)	Plants whi		ruits once ir	n a li	fetir	ne ar	nd th	en
(ii)			ne wall is ne of		of		a	nd
(iii)	Phylloclad represent		aised areas	calle	d		whi	ich
(iv)	3+2+3 cor embryo sa		seen in	t	ype		ispo 1×1=	

(B)	Mul	ltiple	choice questions:		green ; meti
	(i)	Phy	llodes are seen in:	1.	
		(a)	Casuarina		
		(b)	Acacia auriculiform	is	
		(c)	Ruscus		
		(d)	Opuntia		
	(ii)	Wh	ich of the following l	acks	parallel Venation
		(a)	Smilax	(b)	Banana
		(c)	Bamboo	(d)	Fan Palm
1	(iii)		nary endosperm nucleus to fusion of male gar		
		(a)	Antipodal cell	(b)	Egg cell
		(c)	Syngerid cell	(d)	Secondary nucleus
I willy	(iv)		ch of the following asporic type of embry		
		(a)	Plumbagella	(b)	Oenothera
		(c)	Allium	(d)	Drusa $4 \times 1 = 4$
			UNIT—I		
Expl	ain tl	he sti	ructural and anatomic	al mo	odifications in roots

2.

3.	. (a)	Draw T.S. of Pneumatophore (Respiratory Root).	
	(b)	Explain the following types of structural tap	-root
		modifications for storage:	
		(i) Tuberous	
		(ii) Fusiform	
		(iii) Napiform.	4,3
		UNIT—II	
4.	(a)	Differentiate between simple and compound leaf	1
	(b)	Explain Phylloclade and Rhizome.	4,3
5.	(a)	Discuss various types of leaf venation with su	itable
		examples.	
	(b)	Explain Cladode and Corm.	4,3
		UNIT—III	
5.	(a)	Discuss the statement that "Flower is modified sh	ioot".
	(b)	Draw T.S. of young anther.	4,3
7.	Brie	fly discuss the structure and development of fe	emale
	gam	etophyte in angiosperms.	7
		UNIT—IV	
3.	Desc	cribe various types of ovules in angiosperms along	g with
	diag	rams and examples.	7
	Exp	lain the following types of embryo-sacs along	with
	diag	rams:	
	(a)	Penaea type	
	(b)	Adoxa type	
	(c)	Oenothera type.	3,2,2
			• 500