(i)	Printed	Page	s:3		Roll	l No.		•••••	••••••	
(ii)	Question	ns	: 9	Sub.	Code	e : [1 7	4	5 4	
			F	Exam. (Code	e :	0	0	0 5	
B.A./B.Sc. (General) 5th Semester										
				(2124)					
				BOTA	Y					
	Pape	r : T	heory !	Paper-A	: Plan	t Ph	ysiolog	gy-I		
Tim	e Allowed	1 : T	hree H	ours]		Max	imum	Mark	s: 36	
Note	e:—Atte	mpt	FIVE	question	ns in	all.	Questi	on No	. 1 is	
	com	pulse	ory and	is of 8 m	arks, c	comp	rising l	FOUR	MCQ	
	& F	OU	R fill	in the b	lanks.	Atte	empt I	OUR	more	
	aues	stions	s selecti	ng ONE	each fr	om U	Jnits I t	o IV ca	arrying	
61	-		each.							
1.	(A) Tick	the	correct	answer:				3		
	(a)	Pule	sation T	heory pro	nosed	hv F	Rose w	as pro	ved on	
	(a)		ch plant		эрозес	. 0, 1	, ,	us pro		
		(a)	Balsun	1		(b)	Desm	odium		
		(c)	Chlore	lla		(d)	Touch	n me N	lot	
	(b)	A se	ection of	Root No	dule of	Legi	ıminou	s plant	appears	
751 1	teach select	pinl	k due to	presenc	e of:					
		(a)	Haemo	oglobin		(b)	Iron			
		(c)	Leghae	emoglobir	i i	(d)	Rhizo	bium		

(c) The two elements found in the enzyme Nitrogena	ase
are:	
(a) Mn & Mg (b) Fe & Na	
(c) Fe & Mo (d) Mn & Ca	
(d) With reference to Turnover number, which is fastest known enzyme?	the
(a) Nitrogenase (b) Peptydl Transfera	as
(c) Carbonic anhydrase (d) Catalase	4
(B) Fill in the blanks:	
 (a) Ionic exchange theory for mineral absorption is type of absorption. (b) During Osmosis, movement of water is from solution to solution. (c) In Induced Fit hypothesis, the part of active solution. 	om
which supports Substrate is called	, .
(d) The building blocks of Fats are	& 4
UNIT—I	
 (a) How structure of Guard cells in stomata help in Opening & Closing? Explain stomatal working. 	its 5
(b) Write a short note on Plasmolysis & Deplasmolysis.	2
3. (a) Show by diagram, Apoplastic & Symplastic pathw of water in side root.	ay 4
(b) Write a short note on Imbibition & its significance.	3

UNIT—II

4.		What is Hydroponics? Write its types, Requirement & Significance.							
5.	(a)	Describe various types of Passive absorption Minerals.	of 5						
	(b)	What are Hunger Signs? Write any two with the meaning.	neir 2						
		UNIT—III							
6.		hat is Biological Nitrogen Fixation? Write its requirements ocess in side Nodule.							
7.	Wri	Write notes on:							
	(a)	Saturated & Unsaturated Fatty Acids with examples	4						
	(b)	Fats & Oils with examples.	3						
		UNIT—IV							
8.	(a)	What is Enzyme? Are all enzymes Proteins? Clarif with examples. How enzymes differ from Proteins?	y it 5						
	(b)	How Temperature affects the enzymatic activity?	2						
9.	(a)	What is the Modern system of enzyme Nomenclatur Classify enzymes with examples.	e ? 5						
	(b)	What are Tertiary Proteins? Give examples.	2						