(1)	PI	inte	d Paş	ges: 3		Service and the service		0		******		
(;;)	0	nosti	ons	:9	Sı	ub. C	00	de:	0	4	5	4
(ii)	V	uesu	ons	. ,	Eva	m. C	00	de:	0	.0	0	5
					LA							
			В	.A./B.Sc.	(Genera	al) 5th	Sei	meste	r			
					(2123							
					BOTA				. Т			
				ory Pape		lant P	hys	siolog Maxin	y-1	Ma	rke :	36
				hree Hou			•					
Note	e :-	- Att	empt	five ques	tions in a	II. Que	esti	on 1 is	con	puls	ory a	and
				narks, con								
		Att	empt	4 more qu	iestions s	selectir	ng d	one ea	ch fr	om u	inits	Ito
		IV	carry	ing 7 mar	ks each.							
1.	A.	Tic	k the	correct a	nswer:							4
		(1)	Ap	lant cell k	ept in Hy	yperto	nic	solut	ion,	will s	shov	v:
			(a)	Absorpti	ion	(b)	Plast	noly	sis		
			(c)	Imbibitio	n	(d)	Endo	osmo	sis		
		(2)	Wh	ich theory	was prop	osed by	уD	ixon &	& Jol	ly for	rAsc	ent
				Sap?								
			(a)	Pulsation	theory							
			(b)	Transpira	ation pull	theory	7					
			(c)	Imbibitio	n theory							
			(d)	Root Pre	ssure the	eory						

		(3)	Enzyme Nitrogenase functions in:							
				Amino acid syr				ion		
			(c)	Root hair form	ation	(d)	Nitrogen fix	ation		
		(4)	Nun	iber of substrate	es conv	ertec	d into produc	cts/minute	e	
		(4)		nzyme is called						
			(a)	Efficiency		(b)	SP ratio			
			(c)	Enzymatic rate		(d)	Turn over r	number		
	В.	Fill		Blanks:				4	+	
		(1)	Pres	ssure develope	ed in	Xyle	m due to	metaboli	ic	
			activ	vities of Roots	is called	d				
		(2)		Oxidation is t						
		(3)	Prot	ein having 2 or n	nore po	lyper	otides is said t	to have		
				cture.						
		(4)	Dise	ease Tea Yellow	in tea j	plant	is due to the	deficien	су	
			of							
					T—I					
2.	(a)		te a	short note on	Trans	pirat	tion, its typ	es and	its 5	
	(b)			opens to a Plan ertonic solutio		hen i	t is placed in	Hypoton	nic 2	
3.	(a)	Sho	w by	y diagram the side Root. Exp	Apopla	astic ese p	& Symplas	stic path	of 4	
	(b)			e importance					3	
045	4/PB	-108	10		2			[Turn or	ver	

UNIT—II

4.	(a)	What is Hydroponics? Write its types and significance.
	(b)	Write the criteria for the essentiality of Macro & Micro nutrients.
5.	(a)	Describe the passive absorption of Minerals by Ionic exchange method.
	(b)	Write any Six deficiency symptoms with their meaning. 3
		UNIT—III
6.	(a)	What is Nitrogen Fixation? Describe Biological N ₂ fixation in a leguminous plant.
	(b)	Write a note on Ammonia assimilation. 2
7.	(a)	Describe the process of Beta oxidation. 5
	(b)	Differentiate between Saturated & Unsaturated Fatty acids.
		UNIT—IV
8.	(a)	What are Enzymes? How these differ from Proteins? Write their any Six Properties.
	(b)	How enzymes are named according to new system of nomenclature.
9.	(a)	Describe Lock & Key Hypothesis and Induced Fit Hypothesis for Enzyme action.
	(b)	Write one example each of primary & secondary Protein.