(i)	Pri	inted	l Pag	es: 3	Till James P	Ro	ll No	)	
(ii)	Qu	estic	ons	:9				0     4     5     5       0     0     0     5	
all .			B.A	./B.Sc.	(General)	2)	Sen	nester	
				Paper-	BOTA  B (Pla		olog	y)	
Tim	e Al	lowe	d: ]	Three I	Hours]		[Ma	ximum Marks : 36	
Note	· :-	whi		compu				ding Question No. 1 g one question from	
1.	(A)	Mul	tiple	Choice	e Questi	ons (M	(CQ)	):	
		(i)	The regulation of physiological processes of plants by rhythmic changes in temperature is called:						
			(a)	Photop	periodisn	n	(b)	Thermoperiodism	
			(c)	Vernal	ization		(d)	Adaptation	
46		(ii)	Maintenance of stable state of equilibrium within the various components of ecosystem is called:						
			(a)	Produc	etivity	LUIB.	(b)	Mineralization	
			(c)	Homeo	ostasis	estilla South	(d)	Phytogeography	

(iii) Vi	gour in plants is deter	mined	by: 1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.
(a)	) Degree of flowering	and	fruiting
(b	) Condition of foliage		
(c	) Disease resistance		
(d	) All of these		
(iv) B	OD is an indication of	f leve	ls of:
	Growth of plants		Biological pollution
(c	e) Deforestation	(d)	Photosynthesis
(B) Fill in	the blanks:		at strong call
(ii) E	he plants growing in  ach level comprising of node of nutrition is cal ammonia is oxidized to	of orga	nism having similar
	and Nitrobacter		
(iv) _	is the basic elemen	nt of al	1 organic compounds. 8×1=8
· trulian	UNIT-I		
(a) Discu	ss the soil profile and	desc	ribe the various soil
(b) Defin	e ecology and discuss	its so	cope. 4,3
	ne various adaptations in temperature.	in p	lants in response to

## UNIT-II

(a) Discuss the concept of food chain and food web citing examples. (b) Briefly explain biological nitrogen fixation. 4,3 Explain the Biogeochemical Cycle of Carbon in detail. 5. UNIT-III (a) Explain biological spectrum in detail. (b) What are the causes of plant succession? Explain. 4,3 7. Discuss the various stages of plant succession in Hydrosere. UNIT-IV 8. Write notes on: (a) Management of Natural Resources (b) Ozone Hole. 4,3 (a) Discuss the various sources of soil pollution. 9.

(b) Write a note on effects of water pollution.

4,3