Total No. of Questions: 8]		SEAT No.:	
P2137	7 [5329]-46	[Total	No. of Pages : 2
	M.ScII		
	BOTANY		
BO - 4.44 : Plant Physiology (2008 Pattern) (Semester IV) (Special Paper -II)			
Instructi	ions to the candidates:		
1)	Answer any Five questions, taking at least t	wo questions from eac	ch section.
2) Answer to the two sections should be written on separate answer books.			
3)	All questions carry equal marks.		
4)	Neat diagrams must be drawn wherever nec	essary.	
<u>SECTION - I</u>			
<i>Q1)</i> Di	iscuss the effect of global warming on Na	AR and plant metab	oolism. [16]
Q2) Ex	xplain the mechanism of biosynthesis and	d degradation of car	rotenoids. [16]
Q3) a)	Write on changing scenario of climate	e and crop physiolog	gy. [8]
b)	Explain effect of green house gases of	n NAR in plants.	[8]
Q4) Wi	rite note on any two.		[16]
a)	Pigment organization in thylakoid		
b)	Photorespiration		
c)	Role of chlorophylls in plant.		

SECTION - II

- Q5) Write effect of viral and mycoplasma infection on plant metabolism. [16]
- Q6) Describe in detail chemical and structural defense mechanism in host plant.[16]
- Q7) a) Give biochemical and photochemical properties of cryptochrome. [8]
 - b) Write effect of allelobiogenesis on plant metabolism. [8]
- **Q8)** Write notes on any two.

[16]

- a) R-genes
- b) Bt- cotton
- c) Photoperiodism

