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R-46-2017

FACULTY OF SCIENCE

B.Sc. (Third Year) (Fifth Semester) EXAMINATION MARCH/APRIL, 2017

(New Course)

BOTANY

Paper IIX

(Plant Physiology)

(We	ednesday, 29-3-2017)	Time: 10.00 a.m. to 12.00 noon	
Time—2 Hours		Maximum Marks—40	
N.B	All questions are compulsory.	59	
	(ii) All questions carry equal mar	ks.	
	(iii) Draw neat and well labelled d	iagrams wherever necessary.	
1.	Define transpiration and describe theorie	es in detail.	
	(a) Transpiration pull theory.	4	
	(b) Imbibition and plasmolysis.	4	
2.	Explain source, deficiency symptoms and their role of Nitrogen, Phosphorus		
	and Potassium.	8	
	The state of the s		
	(a) Munch-mass flow hypothesis.	4	
	(b) Ion exchange theory.	4	
3.	Describe measurement of growth and fac	etors affecting growth.	
	Or		
\$ 60 C	(a) Practical applications of Gibberelli	ns. 4	
	(b) Methods of breaking seed dorman	cy. 4	
		P.T.O.	

WT		(2)	-2017
4.	What	are secondary metabolites? Explain structure and biological fun	ctions
	of tar	nnins and organic acids.	8
		Or Significant Control of the Contro	
	(a)	Biological functions of Alkaloids.	4
	(<i>b</i>)	Biological functions of proteins.	3 4
5.	Write	e short notes on (any four):	8
	(i)	Osmosis	
	(ii)	Paratonic movement	P. Co.
	(iii)	Role of Zn	7
	(iv)	Photoperiodism	
	(v)	Starch and Cellulose functions	
	(vi)	Functions of proteins.	