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## V-45-2017

## FACULTY OF SCIENCE

## B.Sc. (Third Year) (Fifth Semester) EXAMINATION OCTOBER/NOVEMBER, 2017

(New Course)

BOTANY

Paper XII

(Plant Physiology) (Friday, 13-10-2017) Time: 10.00 a.m. to 12.00 noon Time—2 Hours Maximum Marks—40 N.B. : (i)Attempt *All* questions. All questions carry equal marks. What is Ascent of Sap? Explain in detail cohesive force theory. 1. 8 OrStomatal transpiration (a) Phototropism. (b) 2. What are microelements? Explain source, deficiency symptoms and role of Zn and Mn in plant nutrition. 8 Or(*a*) Ion Exchange theory Munch's mass flow hypothesis. (b)

Or

(a) Application of cytokinines

What is growth? Explain phases of growth.

(b) Photoperiodism.

3.

P.T.O.

8

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4.	What	are carbohydrates? Give its classification and functions.	8
		Or State of the st	
	(a)	Secondary structure of protein	9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9
	( <i>b</i> )	Biological functions of terpenoids.	
5.	Write	short notes on (any four):	8
	(a)	Plasmolysis	
	( <i>b</i> )	Chemotropism	147
	(c)	Role of sulphur in plant nutrition	
	(d)	Application of Abscisic acid	
	(e)	Short day plants	
	<i>(f)</i>	Function of cellulose	