Seat Number

April 2015



BOTANY PAPER - II : BOT - 232 Plant Physiology (23146)											
P.	P. Pages: 2										
Time : Two Hours						Max. Marks: 40					
	1. 2. 3. 4. 5.	Do Gra use Stu All Fig	s to Candidates: not write anything caph or diagram should for writing paper idents should note, questions are compures to the right incaw neat labelled diagrams.	uld be draw or black H no suppler oulsory. licate full r	vn with the black in B pencil. ment will be provid	nk pen being					
1.	Att	emp	t any eight of the f	ollowing.		8					
	i) .	a)	ward movement of Transpiration Exudation		Ascent of sap Sucking						
	ii)	a) b)	omata open & close Root pressure Imbibition pressure Turgor pressure of Positive pressure	e f guard cel							
	iii)	a)	mosis is diffusion o Water Solute particles	b) d)	Energy Gases						
	iv)	as.	owth movement cau movements. Phototropic Phototactic	used by gra b) d)	evitational pull is constitutional pull in constitutional pull in constitutional pull is constitutional pull in co	alled					
	v)	a)	is the process Photosynthesis Transpiration	b)							

		vi)	Define deplasmolysis.			
		vii)	What is diffusion pressure (DP)?			
		viii)	Any two types of plant movement.			
		ix)	Define anaerobic respiration.			
		x)	What is imbibition?			
2.		Attempt any four				
		a)	Define phenomenon of diffusion.			
		b)	Explain lenticular transpiration.			
		c)	What is fermentation?			
		d)	Give any two importance of plant physiology.			
		e)	Define Nyctinastic movement.			
		f)	Enlist photosynthetic pigments.			
3.		Answer any two.				
		a)	Describe different types of solutions in relation to cell sap.			
		b)	Describe external factors affecting salt absorption.			
	,	c)	Give mechanism of stomatal opening & closing.			
4.	a)	Wr	ite any two.	6		
		i)	Explain how transpiration is necessary evil.			
		ii)	Explain role of root hair in absorption of water.			
		iii)	Briefly describe carbonic acid exchange theory.			
	b)	Sk	etch and label structure of stomata.	2		
5.		Describe ETS cycle.				
0.		OR OR				
		De	scribe HSK (C ₄) pathway & its significance.			
