## BOTANY PAPER - II : BOT-232 Plant Physiology (23146)

40

P. I	Pages	: 2		(2314)	0)				
Tin	ne : Tv	vo H	lours		May M. d				
-	The state of	-			Max. Marks	: 40			
	Instr	uctio	ns to Candidates :	*	IN THE PARTY OF TH	-			
		1. [	Do not write anything	on question	paper except Seat No.				
					paper except Seat No. I with the black ink pen being used for				
		3 0	vriting paper or black	k HB pencil.	and black this pell being used for				
		4 4	dudents should note	, no suppleme	ent will be provided.				
		3. F	igures to the right in	dicate full mai	ks.				
			raw neat and labelle	ed diagrams w	herever necessary.				
1.	Attempt any eight of the following.								
						8			
	i)	200	smosis is diffusion of	of					
		a		b)	Solute particles				
		C	Gases	d)	Energy				
	ii)	Т	ne outer solution hav	vina equal con					
	<ul> <li>ii) The outer solution having equal concentration as that of cell sap is called solution.</li> </ul>								
		a)	Hypertonic	b)	Hypotonic				
		c)	Isotonic	d)	None of these				
	iii)								
		iii) Protein-Lecithin theory of absorption of mineral salts was first proposed							
		a)	Lundergardh						
		c)	Bennett-Clark	b)	Donnan				
				d)	None of these				
	iv)	iv) The special modified epidermal cells surrounding stomatal pore is							
		ca	led cells.	, sens	ourrounding stornatal pore is				
			Epithelial	b)	Guard				
		c)	Subsidiary	d)	Accessory				
	Movement of locomotion which occur in free swimming organisms is called movement.								
		a)	Tropic	***					
		c)	Nastic	b)	Tactic				
				d)	None of these				
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					47 (22.1 (24				

		VI,	Define deplasmolysis.			
		vii	) What is wall pressure?			
		vii	) What is fermentation?			
		ix)	Define diffusion.			
		x)	Define Ascent of sap.			
2.		Attempt any four.		8		
		a)	Explain cuticular transpiration.			
		b)	What is photolysis of water?			
		c)	Define aerobic & anaerobic respiration.			
		d)	Give any two importance of plant physiology in agriculture.			
		e)	Pre-requisites of Osmosis.			
		f)	Define Imbibition.			
3.		Answer any two.				
		a)	Give relation between OP, TP & DPD.	8		
		b)	Give difference between active & passive absorption of water.			
			Briefly describe contact exchange theory.			
1. a)		Write any two.				
		i)	Explain in brief K* pump theory of transpiration.	6		
		ii) I	Explain importance of cohesive and adhesive forces in ascent of sap.			
			Explain role of root hair in water absorption.			
	b)		ch and label structure of stomata.	2		
		Draw schematic representation of citric acid cycle.				
			OR	8		
		Expla	in non-cyclic photophosphorylation.			
			*****			