April 2014



_	9	0			
Seat	0 1				8
No.				7 .	



कण - 116

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

P. Pages: 2

Time	Two	Hours
INIT	1 44 0	HOURS

Max. Marks: 40

8

Instru	ctions	to	Car	did	atoc	
mouu	しいしいち	LU	Val	lulu	dies	

- 1. Do not write anything on question paper except Seat No.
- 2. Answersheet should be written with blue ink only. Graph or diagram should be drawn with the same pen being used for writing paper or black HB pencil.
- 3. Students should note, no supplement will be provided.
- 4. All questions are compulsory.
- 5. Figures to the right indicate full marks.
- 6. Draw neat and labelled diagrams whenever necessary.

1.	Atte	empt any eight.
	i)	First step in absorption of mineral salt by plant is
	ii)	Ascent of sap takes place in
	iii)	Osmosis is the diffusion of
	iv)	Who discovered the light reaction?
	V)	Endo osmosis occures when the plants cell is placed in a) strong solution b) isotonic solution c) hypotonic solution d) none of these
	vi)	Give balanced equation of aerobic respiration.
	vii)	What is fermentation?

		viii	i) What is chemotactic movement?	
		ix)	Define photosynthesis.	
		x)	What are the end products of dark reaction.	
2.		Att	empt any four.	8
		a)	Explain the pulsation theory.	
		b)	What is phototropic movement.	
	7	c)	Explain the role of root hair in water absorption.	
		d)	Explain the various factors affecting rate of diffusion.	
		e)	What are the prerequisites of osmosis.	
		f)	Give relationship between OP, TP and DPD.	
3.		Atte	8	
		a)	What is respiration and give types of respiration.	
		b)	Explain the effect of O ₂ and CO ₂ on photosynthesis.	
		c)	Explain in brief transpiration k+ pump theory.	
4.	a)	Solv	e any two.	6
		i)	Describe photolysis of water.	
		ii)	Give the outline of calvin cycle.	
		iii)	Briefly describe the contact exchange theory.	
	b)		ain endo-osmosis.	2
5.		Desc	cribe in detail tactic movement in plants.	8
			OR	
		Expla	ain non-cyclic photophosphorylation.	
	7.		***	