



Plant Physiology (23146)

P. Pages: 2

Time: Two Hours

Max. Marks: 40

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- 1. Do not write anything on question paper except Seat No.
- 2. Graph or diagram should be drawn with the black ink 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 & labelled diagrams wherever necessary.

Attempt any eight of the following.

1

- i) Define Diffusion Pressure Deficit (DPD)
- ii) Define phototropic movement.
- iii) The zone on root responsible for water absorption.
 - a) Zone of maturation
- b) Root hair zone
- c) Zone of elongation
- d) Meristematic zone
- iv) The solution which has higher concentration than that of cell sap is called ----- solution.
 - a) Isotonic

- b) Hypotonic
- c) Hypertonic

- d) Monotonic
- v) Define the phenomenon of Diffusion.
- vi) What is xylem sap?
- vii) What is isotonic solution?
- viii) Explain stomatal transpiration.
- ix) What is photolysis?
- x) Explain Kranz Anatomy.

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2.		Attempt any four.	8
		i) Water is an universal solvent -explain.	
		ii) What is turgor pressure (TP)?	
		iii) Explain the terms plasmolysis and de-plasmolysis.	
		iv) Explain hypotonic and hypertonic solutions.	
		v) Nyctanastic movements.	
		vi) Sketch and label the structure of typical stoma.	
3.		Attempt any two.	8
		i) Describe various types of transpiration.	
		ii) What is osmotic and non-osmotic theory of water absorption?	
		iii) Describe ultrastructure of chloroplast.	
4.	a)	Attempt any two.	6
		i) Describe the factors affecting the salt absorption.	J
		ii) Give relationship between OP,TP and DPD	
		iii) Give outline of Calvin cycle.	
-	b)	Bio illumination.	2
5.		Describe in detail, the process of light reaction in photosynthesis.	8
		OR .	0
		What is respiration? Describe the energy releasing steps in Kreb's cycle.	- 0
		- 19) Torodoning Steps in Kreb's cycle.	8