Exam. Code : 103205 Subject Code: 1390

B.A./B.Sc. 5th Semester

ROTANY

Paper-V (A): (Plant Physiology)

Time Allowed—3 Hours]

[Maximum Marks—35

Note: — There are total NINE questions. All questions have 7 marks each. Question No. 1 is compulsory. Answer in 3-4 lines. From remaining **EIGHT** questions, candidate is required to attempt any FOUR questions.

- Write notes on:
 - (A) Osmosis
 - (B) Trace elements
 - (C) Epinasty
 - (D) Photoinhibition
 - (E) Hill reaction
 - (F) Kranz anatomy
 - (G) Photoperiodism.

1×7=7

- (A) Differentiate between macronutrients and micronutrients. 3.5
 - (B) Describe the role of phosphorus and potassium in plant nutrition. 3.5

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(Contd.)

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3.	Write short notes on:		
	(A) Florigen concept	3.5	
	(B) Growth curve.	3.5	
4.	Explain the role of light in the regulation of development. What is the function of phytochro		
5.	Explain the Transpiration Pull theory.	7	
6.	Write notes on:		
	(A) Carrier concept	3.5	
	(B) Active absorption of ions.	3.5	
7.	(A) Differentiate between C ₄ and C ₃ plants.	3.5	
	(B) Write a note on Hatch Slack Cycle.	3.5	
8.	Write short notes on:		
	(A) Photorespiration	3.5	
	(B) Emerson effect.	3.5	
9.	Discuss the role of:		
	(A) Ethylene in fruit ripening	3.5	

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(B) Auxins in parthenocarpy.

1900

3.5