Exam. Code : 103205 Subject Code : 1346

B.A./B.Sc. 5th Semester BOTANY Paper—V-A (Plant Physiology)

Tin	ne Allowed—3 Hours] [Maximum Ma	rks—35		
No	te:—Question paper consists of nine questions. five questions in all Question No. 1 is con (answer each part in 3-4 lines). All question equal marks (7 marks each).	pulsory		
1.	Write short answers to the following:—	7×1=7		
	(A) Imbibition.			
	(B) Solution Culture.			
	(C) Factors affecting translocation.			
	(D) Photorespiration			
	(E) Differentiate between action and absorption	spectra.		
	(F) Physiological role of Jasmonates.			
	(G) Biological clock.			
2.	Give a brief account of transpiration in plants and discuss			
	its physiological role.	7		
3.	Describe in detail, the physiology of stomata.	7		
4.	What elements are essential in plant nutrition?	Explain		
	the role of any four of them and explain how their deficiency			
	affects the plant growth.	7		
5.	Describe how the organic substances are transloplants.	cated in		
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6.	Explain the mechanism of CO ₂ fixation in C ₄ plants. H	ow
	does it differ from CO ₂ fixation in C ₃ plants?	7
7.	Explain the two photosystems and their role	in
	photosynthesis.	7
8.	Write short notes on :—	
	(A) Seed dormancy	2
	(B) Florigen concept	2
2	(C) Photomorphogenesis.	3
9.	What are phytohormones? Discuss the role of Gibberell	ins
	in plant development.	7

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