Exam. Code: 103205 Subject Code: 1346

[Maximum Marks—35

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

Paper—V-A (Plant Physiology)

No	te: Question paper consists of nine questions. Attempt
	five questions in all Question No. 1 is compulsory
	(answer each part in 3-4 lines). All questions carry
	equal marks (7 marks each).
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

6.	Explain the mechanism of CO ₂ fixation in C ₄ plants. I	low
	does it differ from CO ₂ fixation in C ₃ plants?	7
7.	Explain the two photosystems and their role	ir
	photosynthesis.	7
8.	Write short notes on :—	
	(A) Seed dormancy	2
	(B) Florigen concept	2
-	(C) Photomorphogenesis.	3
9.	What are phytohormones? Discuss the role of Gibbere	llins
	in plant development.	7

plants.

affects the plant growth.

Time Allowed—3 Hours]

the role of any four of them and explain how their deficiency

Describe how the organic substances are translocated in