B.Sc. 3rd Semester (Pass) (New Scheme) Examination, November-2018

BIO-TECHNOLOGY

Paper-BT-303

Plant Physiology

Time allowed: 3 hours] [Maximum marks: 40

Note: Answer five questions in all. Question No. 1 is compulsory. Attempt four more questions selecting one question from each unit. All questions carry equal marks.

1. Write on the following:

10×1

- (a) Quiescent centre
- (b) Imbibition
- (c) Macronutrients
- (d) Give the full form of CAM.
- (e) Compensation point
- (f) Diffusion
- (g) Name the gaseous hormone
- (h) Wood parenchyma
- (i) Guttation
- (j) Types of stomata

Unit-I

2. Describe the internal structure of dicot root with labelled diagram.

3.	(a)	Discuss the shoot apical meristem in plants.	4	
	(b)	Secondary growth in plants.	31/2	
		Unit-II		
4.		Discuss the role and deficiency symptoms of potassium iron and sulphur in plants.		
5.	Explain the mechanism of opening and clostomata in plants.		ng of 7½	
	Subsection in	Unit-III		
6.	(a)	Differentiate C ₃ and C ₄ plants.	4	
	(b)	Photorespiration	31/2	
7,	Exp	lain the nitrogen fixation in plants.	71/2	
	cyte "	Unit-IV		
8.	(a)	Discuss the role of gibberellins in plants.	4	
	(b)	Describe the inductive and non-inductive flowering.	ctive 3½	
9.	What is seed dormancy? Give the types of seed			
		dormancy. Describe the methods to overcome the seed		
	dorr	nancy.	71/2	