

THE AMERICAN COLLEGE, MADURAI

(An Autonomous Institution Affiliated to Madurai Kamaraj University) Re-accredited (2nd Cycle) by NAAC with Grade "A", CGPA – 3.46 on a 4-point scale

Backlog Arrear Examination, March 2021

PGB S	5503 Morphogenesis	
Time:	3hrs	Marks: 75
I. Answer any FIVE of the following each not exceeding four pages. (5X15=75)		(5X15=75)
1. How plants are different from animals in growth and development. Identify the		
	different phases of plant growth.	
2.	2. Enumerate the classical theories proposed to explain the organization of shoot apical	
	meristem and draw a perspective on its molecular regulation.	
3	Illustrate call evels and account for its dynamics	

- 3. Illustrate cell cycle and account for its dynamics.
- 4. Why should plants be polar in their organization? Study the mechanism of polarity and comment on it's significance.
- 5. Evaluate ABC model of florogenesis and establish flower as a condensed and modified shoots.
- 6. Enlisting the plant hormones show how their interactions regulate plant development.
- 7. Concisely present the various methods of plant propagation.