LOYOLA COLLEGE (AUTONOMOUS), CHENNAI – 600 034 B.S. DEGREE EXAMINATION – PLANT BIOLOGY AND PLANT BIOTECHNOLOGY SECOND SEMESTER – APRIL 2023 16/17/18UPB2MC02 – PLANT ANATOMY AND EMBRYOLOGY		
Date: 13-05-2023 Dept. No. Time: 09:00 AM - 12:00 NOON	Max. : 100 Marks	
PART A		
Answer the following, each within 50 words.	(10 x 2 = 20 marks)	
1. Mention the features of collenchyma.		
2. What are cell inclusions?		
3. Define anamocytic stomata.		
4. What is pericycle?		
5. Define exarch.		
6. What is cambium?		
7. Draw the structure of pollen grain.		
8. Define anemophily.		
9. What is parthenocarpy?		
10. What is endosperm?		
PART B		
Answer the following, each within 500 words. Draw diagrams / flowcharts wherever necessary.	(5 x 7= 35 marks)	
11. a. Give an account on sclerenchyma.		
(or) b. Write notes on the classification of meristematic tissues		
12. a. Explain the types of vascular bundles.		
(or) b. Write notes on the internal structure of dicot root.		
13. a. Explain the different types of stomata in dicots. (or)		
b. Write notes on the anatomy of Dracaena Stem.		
14. a. What is pollination? What are the agents for pollination. (or)		
b. Explain about the contrivances for cross pollination.		
15. a. Write notes on the structure of monocot embryo. (or)		
b. Give an account on the types of ovules.		

PART C	
Answer any three of the following, each within 1200 words.	
Draw diagrams / flowcharts wherever necessary.	(3 x 15= 45 marks)
16. Explain in detail about complex tissues.	
17. Describe the anatomy of dicot and monocot stem.	
18. Explain the anatomy of dorsiventral and isobilateral leaves.	
19. Explain in detail about the structure of a mature anther	
20. Give an account on the structure of dicot embryo	
