



Date: 04-04-2019  
Time: 01:00-04:00

Dept. No.

Max. : 100 Marks

**PART- A**

Answer the following, each within 50 words.

(10 x 2=20 marks)

1. Define Sclerenchyma.
2. What is Meristem?
3. What is the role of cuticle in plants?
4. Define Cambium.
5. Define Polyarch.
6. Give the different components of vascular bundle.
7. What is tapetum?
8. What is pollen dispersal unit?
9. Write a note on triple fusion.
10. Define apomixes.

**PART- B**

Answer the following, each within 500 words. Draw diagrams wherever necessary.

(5 x 7=35 marks)

11. (a) Comment on different types of tissues in plants.  
Or  
(b) Describe the theories related to organisation of apical meristems.
12. (a) Explain the types of vascular bundles.  
Or  
(b) Write a short notes on anatomy of dicot stem.
13. (a) Describe the anatomical structure of dicot leaf.  
Or  
(b) Write detailed notes on the different type of stomata?
14. (a) Give a short account on the structure of mature anther.  
Or  
(b) Comment on the different types of pollination in plants.
15. (a) What is endosperm? Comment on its types.  
Or  
(b) Explain the types of pollen grains.

**PART- C**

**Answer any three of the following, each within 1200 words. Draw diagrams wherever necessary.**

**(3 x 15=45 marks)**

16. Write an essay on the permanent tissues in plants.
17. Comment on the anomalous secondary growth in *Dracaena*.
18. Compare and contrast the anatomy of dicot and monocot root.
19. Write an essay on the type and development of ovule.
20. Describe the different events in the fertilization process.

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