

PSG COLLEGE OF ARTS & SCIENCE  
(AUTONOMOUS)  
BSc DEGREE EXAMINATION DECEMBER 2018  
(Second Semester)

Branch - BOTANY

**VEGETATIVE PLANT BIOLOGY**

Time : Three Hours

Maximum : 75 Marks

**SECTION-A (20 Marks)**

Answer ALL questions

ALL questions carry EQUAL marks ( 10 x 2 = 20)

- 1 What is root?
- 2 Comment on Root cap.
- 3 Note on Hydathode.
- 4 What is meant by velamen.
- 5 How to differentiate herbaceous plants with woody plants?
- 6 Define apical Meristem.
7. Write any two binomial name of economically important wood.
- 8 What is pruning?
- 9 Note on Tendril.
- 10 What are stomata?

**SECTION - B (25 Marks)**

Answer ALL Questions

ALL Questions Carry EQUAL Marks ( 5 x 5 = 25)

- 11 a Differentiate between tap root and Fibrous Root.  
OR  
b Explain the structure of young monocot root.
- 12 a Write short notes on root nodules.  
OR  
b What are trace elements? Add their roll in plant nutrition.
- 13 a Give an account of anatomy of monocot stem.  
OR  
b Illustrate the underground stem modifications.
- 14 a Explain briefly about cohesion theory.  
OR  
b Comment briefly on chemical properties of cellulose.
- 15 a What is venation? Give its type.  
OR  
b Differentiate between the anatomy of dicot and monocot leaf.

**SECTION - C (30 Marks)**

Answer any THREE Questions

ALL Questions Carry EQUAL Marks ( 3 x 10 = 30)

- 16 Describe the internal structure of mature dicot root.
- 17 Explain the mechanism of water absorption in plants.
- 18 Describe the internal structure of dicot stem.
- 19 Write short notes on  
i) Cellulose (4 Mark) ii) Resins (3 Marks) iii) Gums (3 Mark)