

PSG COLLEGE OF ARTS & SCIENCE
(AUTONOMOUS)
BSc DEGREE EXAMINATION MAY 2017
(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 (10x2 = 20)

- 1 What are napiform roots? Give example.
- 2 What is velamen tissue?
- 3 ' Define apical meristem.,-
- 4 What is VAM ? Mention the types.
- 5 . What is intemode.
- 6 , What are lenticels?
- 7 Comment on cohesive theory.
- 8 Define Stem cutting.
- 9 Define Phyllotaxy.
- 10 What are Phyllodes?

SECTION - B (25 Marks!)

Answer **ALL** Questions

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

- 11 a With suitable diagram explain the modifications of tap roots.
OR
b Describe the internal structure of young monocot root.
- 12 a Write about any three types of specialized roots.
* ■ OR
b Differentiate ecto and endomycorrhizae.
- 13 a Describe the different types of stem. *
OR
b Briefly explain the internal structure of dicot stem.
- 14 a .Write notes on conduction of water and nutritive elements in stem.
OR
b * Give an account on process of secondary growth in Dicot stem.
- 15 a Explain leaf modifications like tendrils, thorns and pitchers.
OR
• b Describe the anatomy of Dicot leaf.

SECTION - C (30 Marks')

Answer any **THREE** Questions

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

- 16 Explain the internal structure of a Dicot root.
- 17 Write about the mechanism of absorption of water by roots.
- 18 Give an account on anomalous secondary growth in Nvctanthus stem.
- 19 Write an essay on the physical and chemical properties of wood?
- 20 Describe in detail the mechanism of stomatal movement.

Z-Z-Z

END