

**PSG COLLEGE OF ARTS & SCIENCE
(AUTONOMOUS)
BSc DEGREE EXAMINATION DECEMBER 2017
(First Semester)**

Branch - **BOTANY**

PLANT DIVERSITY

Time : Three Hours

Maximum : 75 Marks

SECTION-A (20 Marks)

Answer **ALL** questions

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

- 1 Define the term pyrenoid.
- 2 Explain the term nannandria.
- 3 What mean by Oogamy?
- 4 What is frustule?
- 5 Define Pseudo elaters.
- 6 What is amylo layer?
- 7 Define siphnostelic vascular system.
- 8 Explain the liqule of Selaginella.
- 9 Define syndetocheilic stomata.
- 10 What is connate bracts?

SECTION - B(25 Marks)

Answer **ALL** Questions

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

- 11 a Explain the thallus organization of caulerpa.
OR
b Highlight the features of Nannandrous species of Oedogonium.
- 12 a Describe the external morphology of diatoms.
OR
b List out the salient features of Dictyota.
- 13 a Write an account on ecology of bryophytes.
OR
b Describe the thallus organization of Polytrichum.
- 14 a Write an account on the salient features of Adiantum.
OR
b Illustrate the sporangial structure of Psilotum.
- 15 a What is coralloid roots? Explain its anatomy.
OR
b Write a general account on Lepidodendron.

SECTION - C (30 Marks)

Answer any **THREE** Questions

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

- 16 Describe the Fritsch's system of algal classification.
- 17 Write an illustrative account on the life cycle of Sargassum.
- 18 Explain the ultra structural features of Anthoceros sporophyte.
- 19 Describe the life-cycle of Equisetum.
- 20 Write an account on geological time scale.