

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

- 1 What are symbiotic algae?
- 2 What is meant by Palmelloid form?
- 3 Define frustule.
- 4 What are tetraspores?
- 5 Comment on the two types of rhizoids present in Riccia.
- 6 Define operculum.
- 7 What is a synangium?
- 8 Define sorus.
- 9 What are coralloid roots?
- 10 What are compression fossils?

SECTION - B (25 Marks)

Answer ALL Questions

ALL Questions Carry EQUAL Marks (5x5 = 25)

- 11 a Draw and explain the fine structure of Chlamydomonas cell.
OR
b Explain the sex organs of Oedogonium.
- 12 a List any five characteristics of Diatoms.
OR
b Describe the internal structure of the thallus of Dictyota.
- 13 a Explain the external structure of the gametophyte of poroclinium.
OR
b Explain the internal structure of the thallus of Anthoceros.
- 14 a Explain the external feature of the sporophyte of Psilotum.
OR
b Briefly explain the internal structure of the stem of Selaginella.
- 15 a Explain the L.S. view of the ovule of Cycas.
OR
b Explain the structure of stem of Lepidodendron in a transverse section view.

SECTION - C (30 Marks)

Answer any THREE Questions

ALL Questions Carry EQUAL Marks (3x10 = 30)

- 16 Describe the classification of algae proposed by F.E. Fritsch.
- 17 Describe the reproduction in Sargassum.
- 18 Draw and explain the L.S. view of the sporophyte of Polytrichum.
- 19 Elaborate on the reproduction of Equisetum.
- 20 Describe various fossilization processes.