

PSG COLLEGE OF ARTS & SCIENCE  
(AUTONOMOUS)

MSc DEGREE EXAMINATION MAY 2018  
(First Semester)

Branch -**BOTANY**

**PLANT DIVERSITY-I**

1 Time: Three Hours

Maximum: 75 Marks

**SECTION -A (30 Marks)**

Answer ALL questions

ALL questions carry EQUAL Marks ( 5 x 6 = 30)

- 1 a Explain the cell division of Diatoms.  
OR  
b Outline the Fritsch classification of Algae.
- 2 a Analyse the ecological conditions of Algal members.  
OR  
b Describe the thallus variations among Phaeophyceae.
- 3 a Outline the Alexopoulos's classification of fungi.  
OR  
b Give an account on the mode of nutrition of fungi.
- 4 a Mention about the fungal genetics.  
OR  
b Give the general features and distribution of Lichens.
- 5 a Outline the general features of Bryophytes.  
OR  
b Trace the evolution of gametophytes of bryophytes.

**SECTION -B (45 Marks!)**

Answer any **THREE** questions

ALL questions carry **EQUAL** Marks ( 3 x 15 = 45)

- 6 Give an account on important features of Chlorophyceae.
- 7 Discuss the life cycle patterns found in Algae.
- 8 With neat diagram explain the reproduction of Basidiomycetes.
- 9 Discuss the structure, reproduction and physiological characteristics of Lichen.
- 10 Trace the evolution of sporophytes and spore dispersal mechanisms of Bryophytes.

Z-Z-Z

END