PSG COLLEGE OF ARTS & SCIENCE
(AUTONOMOUS)

BSc DEGREE EXAMINATION DECEMBER 2018
(First Semester)

Branch - **BOTANY**

PLANT DIVERSITY

Time: Three Hours   Maximum: 75 Marks

SECTION-A (10 Marks)
Answer **ALL** questions
ALL questions carry **EQUAL** marks   (10x1 = 10)

1   The coenobium colony is found in _____
(i) Chara   (ii) Volvox
(iii) Ectocarpus   (iv) Sargassum

2   Oscillatoria is a _____
(i) Green Algae   (ii) Golden brown algae
(iii) Blue green algae   (iv) Red algae

3   Agar Agar is manufactured from _____
(i) Chara   (ii) Glacilaria
(iii) Volvox   (iv) Sargassum

4   Which one of the algae belongs to Phaeophyceae family?
(i) Polysiphonia   (ii) Chlamydomonas
(iii) Caulerpa   (iv) Sargassum

5   Bryophytes are primitive land plants without _____
(i) Vascular tissue   (ii) Chlorophyll
(iii) All of them   (iv) None of them

6   Riccia is commonly called _____
(i) Liverwort   (ii) Horned Liverwort
(iii) Leaves   (iv) All of them

7   Pteridophytes are also called_____ .
(i) Phanerogames   (ii) Vascular cryptogams
(iii) amphibioans of the plant kingdom (iv) Spermatophytes

8   *Psilotum nudum* is a_____ .
(i) Epiphytic   (ii) Aquatic
(iii) Terrestrial   (iv) Mesophytic

9   A Gymnospermic plant is_____ .
(i) bear flower   (ii) exhibit no vascular tissue
(iii) produce seeds in cones (iv) does not produce seeds in cones

10   Gnetum is commonly known as_____ .
(i) Tree   (ii) Shrub
(iii) Parasite   (iv) Woody Climber

SECTION - B (35 Marks)
Answer **ALL** Questions
ALL Questions Carry **EQUAL** Marks (5 x 7 = 35)

11   a Describe the nannandrous type of filaments in *Oedogontium.*

12 a   Describe the asexual reproduction in Dictoyota.
                        OR
    b   List out the economic importance of algae.

13 a   List out the general characters of Bryophytes.
                        OR
    b   Describe the sporophytic structure of *Riccia.*

14 a   Describe the structure of synangium in *Psilotum* with a diagram.
                        OR
    b   Describe the L.S. of *Selaginella* cone with diagram.

15 a   Explain the structure of Cycas Ovule.
                        OR
    b   Write short notes on Geological era.

SECTION - C (30 Marks)
Answer any **THREE** Questions
ALL Questions Carry **EQUAL** Marks (3 x 1 0 = 30)

16   Write an essay on Fritsch classification of algae.

17   Write a detailed account on reproduction in *Sargassum.*

18   Describe the structure and reproduction of Polytrichum.

19   Enumerate the general characters of Pteridophytes.

20   Write an essay on fossilization.

Z-Z-Z   END