

PSG COLLEGE OF ARTS & SCIENCE
(AUTONOMOUS)

BSc DEGREE EXAMINATION DECEMBER 2022
(First Semester)

Branch – BOTANY

PLANT DIVERSITY

Time: Three Hours

Maximum: 50 Marks

SECTION-A (5 Marks)

Answer ALL questions

ALL questions carry EQUAL marks

(5 x 1 = 5)

- 1 What is Coenobium?
(i) A hollow spherical colony (ii) A group of filaments
(iii) Palmelloid form (iv) thallus form
- 2 A motile flagellated asexual cell is called
(i) Sperm (ii) Zoospore
(iii) Oospore (iv) Androspore
- 3 The Simplest green plants belong to
(i) Phanerogams (ii) Pteridophytes
(iii) Bryophytes (iv) Angiosperms
- 4 Pteridophytes differ from the Bryophytes by having
(i) Archegonia (ii) Spermatozoids
(iii) Conducting system (iv) Separate gametophytes
- 5 A plant groups produces naked seeds are
(i) Fungi (ii) Bryophytes
(iii) Pteridophytes (iv) Gymnosperms

SECTION - B (15 Marks)

Answer ALL Questions

ALL Questions Carry EQUAL Marks

(5 x 3 = 15)

- 6 a How does *Oedogonium* reproduces asexually?
OR
b Explain the structure of Volvox Colony.
- 7 a List out the economic importance of algae.
OR
b Describe the structure of *Caulerpa* thallus.
- 8 a Sketch the anatomy of *Polytrichum* stem.
OR
b State the uses of bryophytes.

Cont...

- 9 a Summarise the general characters of Pteridophytes.
OR
b Illustrate the L.S. of Selaginella cone.
- 10 a Describe the structure of female strobilus of *Gnetum*.
OR
b How would you categorize the fossils?

SECTION -C (30 Marks)

Answer ALL questions

ALL questions carry EQUAL Marks

(5 x 6 = 30)

- 11 a Describe the Fritsch system of algal classification.
OR
b Write an essay on general characters of algae.
- 12 a Elucidate the structure and reproduction of *Sargassum*.
OR
b Explicate the reproduction methods of *Gracilaria*.
- 13 a Discuss the general characters of Bryophytes.
OR
b Outline the reproduction in *Anthoceros*.
- 14 a Examine the reproduction of *Equisetum*.
OR
b Write a detailed note of the reproduction of *Adiantum*.
- 15 a Explain the fossilization methods.
OR
b Analyze the reproduction methods of Cycas.

Z-Z-Z

END