

PSG COLLEGE OF ARTS AND SCIENCE
(Autonomous)
BSc DEGREE EXAMINATION MAY 2022
(First Semester)
Branch - ZOOLOGY
PLANT BIOLOGY - I

Time: Three Hours

Maximum: 50 Marks

SECTION-A (5 Marks)

Answer ALL questions

ALL questions carry EQUAL marks

(5 x 1 = 5)

1. White rust disease caused by
(a) *Penicillium* (b) *Ustilago* (c) *Albugo* (d) *Agaricus*
2. Cycas ovule consist which type of ovule?
(a) Orthotropous (b) Cercinotropous (c) Anatropous (d) Camphylotropous
3. *Vitex negundo* belongs to family.
(a) Annonaceae (b) Euphorbiaceae (c) Rubiaceae (d) Lamiaceae
4. Siliqua fruit is characteristic of family
(a) Fabaceae (b) Brassicaceae (c) Poaceae (d) Asteraceae
5. Which of the followings is absent in family Poaceae?
(a) Carpels (b) Leaf (c) Petals (d) Stem

SECTION - B (15 Marks)

Answer ALL Questions

ALL Questions Carry EQUAL Marks

(5 x 3 = 15)

6. (a) Describe the vegetative structure of *Dictyota*.
(OR)
(b) Explain the asexual reproduction of *Albugo*.
7. (a) How will you control the rust disease in wheat - Explain.
(OR)
(b) Explain the development of *Cycas* female gametophyte.
8. (a) Elucidate the active principles of medicinal plants.
(OR)
(b) Summarize the uses of medicinal plants in cosmetics.
9. (a) Narrate the economic importance of Annonaceae.
(OR)
(b) Explain the Cyathium.
10. (a) Describe the floral diagram of Asclepiadaceae.
(OR)
(b) Write the binomial names of any three medicinal plants belong to Acanthaceae.

Cont...

SECTION -C (30 Marks)

Answer ALL questions

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

11. (a) Outline the five kingdoms classification with merits and demerits.
(OR)
(b) Elucidate the sexual reproduction of *Volvox*.
12. (a) Explain the Tikka diseases of groundnut with reference to casual organism, symptoms and control measures.
(OR)
(b) Summarize the mature sporophyte of *Anthoceros*.
13. (a) Elucidate the medicinal properties and active principles of *Phyllanthus amarus*.
(OR)
(b) Summarize the uses of medicinal plants in pharmaceutical industry.
14. (a) Outline the Bentham and Hookers system of classification.
(OR)
(b) Elucidate the systematic position and family characters of Rutaceae.
15. (a) Discuss the economic importance of Poaceae.
(OR)
(b) Explain the vegetative and floral characters of Rubiaceae.

Z-Z-Z

END