

PSG COLLEGE OF ARTS & SCIENCE
(AUTONOMOUS)

BSc DEGREE EXAMINATION MAY 2022
(Second Semester)

Branch – **ZOOLOGY**

PLANT BIOLOGY II

Time: Three Hours

Maximum: 50 Marks

SECTION-A (5 Marks)

Answer ALL questions

ALL questions carry EQUAL marks (5 x 1 = 5)

1. What do you mean by 'a naked cell'
(i) callus (ii) totipotency (iii) pluripotency (iv) protoplast
2. Find out the Fungi out from the list
(i) mushroom (ii) moss (iii) orchid (iv) Opuntia
3. The Japanese art of growing and training miniature trees in pots is
(i) floriculture (ii) arboriculture (iii) terrarium (iv) Bonsai
4. Propagation of Asteraceae members is by
(i) Seeds (ii) Runners (iii) Budding (iv) Layering
5. Pick out the odd Phytohormone
(i). 2, 4- D (ii) IAA (iii) NAA (iv) KIN

SECTION - B (15 Marks)

Answer ALL Questions

ALL Questions Carry EQUAL Marks (5 x 3 = 15)

6. a. Outline the process of Dedifferentiation.
(OR)
b. Define Totipotency.
7. a. How will you produce alcohol? Explain the steps involved.
(OR)
b. Discuss briefly on microbiological process involved in Penicillin production.
8. a. Explain the choice and techniques of maintaining Indoor Garden.
(OR)
b. How the laying and maintaining of lawn can be done? Explain.
9. a. Summarize the techniques involved in propagation of Jasmine.
(OR)
b. List out the Marketing and various uses of Pepper.
- 10 a. Explain the process of Light reaction in chloroplast.
(OR)
b. What do you mean by Fermentation? Explain.

Cont...

SECTION -C (30 Marks)

Answer ALL questions

ALL questions carry EQUAL Marks

(5 x 6 = 30)

11. a. What are artificial seeds? Explain the process involved in its preparation.

(OR)

b. With a neat sketch explain the isolation, culture of plant protoplasts.

12. a. List out the processes involved in the production of Citric acid.

(OR)

b. Give a detail note on production of edible Mushrooms.

13. a. Write an essay on Rock gardening and water garden.

(OR)

b. Narrate the techniques and types involved in Bonsai.

14. a. Give a detailed account on the propagation and cultivation of Turmeric.

(OR)

b. Describe the cultivation of Chrysanthemum with its uses.

15. a. Write an essay on Mechanism of Respiration in plants.

(OR)

b. Explain the Physiological role, Mode of action and Chemistry of Auxins.

Z-Z-Z END