

PSG COLLEGE OF ARTS & SCIENCE
(AUTONOMOUS)

BSc DEGREE EXAMINATION MAY 2023
(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. Miniaturizing and growing of plants in pots
(i) Terrarium (ii) Water garden
(iii) Bonsai (iv) Lawn
2. The branch of forestry deals with the timber production.
(i) Flori Culture (ii) Silvi Culture
(iii) Dleri Culture (iv) Horti Culture
3. Which of the leaves are commonly used as mosquito repellent?
(i) Eucalyptus (ii) Digitalis
(iii) Cassia (iv) Stramonium
4. Who is known as the Father of tissue culture?
(i) Bonner (ii) Laibach
(iii) Haberlandt (iv) Gautheret
5. Which of the following is the most common method for citric acid production?
(i) Solid-state fermentation (ii) Submerged fermentation
(iii) Surface fermentation (iv) Surface adhesion fermentation

SECTION - B (15 Marks)

Answer ALL Questions

ALL Questions Carry EQUAL Marks

(5 x 3 = 15)

- 6 a. How will you prepare a bonsai plant?
OR
b. State the advantages of indoor gardening.
- 7 a. Summarize the minor forest products.
OR
b. Bring out the economic importance of Teak plant.
- 8 a. Describe the uses of medicinal plants in cosmetics.
OR
b. Discover the medicinal uses of *Justistic adhatoda*.
- 9 a. Narrate the totipotency.
OR
b. Classify the advantages and disadvantages of artificial seeds.
- 10 a. Describe the factors affecting the citric acid production.
OR
b. Explain the production of *Agaricus*.

Cont...

SECTION -C (30 Marks)

Answer ALL questions

ALL questions carry EQUAL Marks

(5 x 6 = 30)

- 11 a. Discuss about the principles of garden designing.
OR
b. Highlight the uses of Jasmine and Roses.
- 12 a. Categorize the Indian forest types.
OR
b. Highlight the value of social forestry.
- 13 a. Discuss about the active principles of medicinal plants.
OR
b. Elucidate the medicinal uses and active principles of *Vitex negundo*.
- 14 a. Enumerate the various methods of sterilization.
OR
b. Outline the methods of protoplast isolation.
- 15 a. Summarize the method of alcohol production.
OR
b. Highlight the various steps in Penicillin production.

Z-Z-Z

END