

PSG COLLEGE OF ARTS & SCIENCE
(AUTONOMOUS)

BSc DEGREE EXAMINATION MAY 2019
(Second Semester)

Branch- ZOOLOGY

PLANT BIOLOGY-II

Time : Three Hours

Maximum : 75 Marks

SECTION-A (20 Marks)

Answer ALL questions

ALL questions carry EQUAL marks (10 x 2 = 20)

- 1 What is Explant?
- 2 Define Callus.
- 3 Name any two microorganisms used in the production of Citric acid.
- 4 What is Spawn?
- 5 Define Terrarium.
- 6 Explain Topiary.
- 7 How will you extract the Jasmine concrete?
- 8 Write any two varieties of *Chrysanthemum*.
- 9 Write notes on anaerobic respiration.
- 10 Expand ATP and NADP.

SECTION - B (25 Marks!)

Answer ALL Questions

ALL Questions Carry EQUAL Marks (5 x 5 = 25)

- 11 a Write notes on shoot apex culture.
OR
b Give a brief note on medium preparation.
- 12 a Briefly explain the commercial production of Citric acid.
OR
b Give a short account on Penicillin;
- 13 a Describe a Rockery garden.
OR
b Explain Bonsai techniques.
- 14 a Give the cultivation method of *Chrysanthemum*.
OR
b Describe the propagation methods of Turmeric.
- 15 a Write a brief account on Krebs's cycle.
OR
b Explain the Non-cyclic Photophosphorylation process.

SECTION - C (30 Marks)

Answer any THREE Questions

ALL Questions Carry EQUAL Marks (3 x 10 = 30)

- 16 Describe the techniques of isolation and culture of plant protoplast with the help of suitable diagram.
- 17 Discuss the different methods of Mushroom cultivation.
- 18 Write an essay on lawn making.
- 19 Give a detailed account on cultivation, marketing and uses of Jasmine.
- 20 Write a brief account on Calvin cycle.