

. PSG COLLEGE OF ARTS & SCIENCE  
(AUTONOMOUS)  
BSc DEGREE EXAMINATION MAY 2017  
(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 sterilization?
- 2 What are hybrids?
- 3 What is spawn?
- 4 Write any two significances of penicillin.
- 5 Name the containers used to grow indoor plants.
- 6 What is bonsai?
- 7 Mention the uses of turmeric.
- 8 Name the horticultural plants in the family Asteraceae.
- 9 What is absorption spectrum?
- 10 Write any four physiological roles of cytokinins.

SECTION - B (25 Marks)

Answer ALL Questions

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

- 11 a Write the requirements of a plant tissue culture laboratory.  
OR
- b Explain the protocol for root culture.
- 12 a Describe the industrial production of citric acid.  
OR
- b Write short notes on morphological features of Agaricus.
- 13 a What are the steps adopted to maintain the lawn? <sup>1</sup>  
OR
- b Give a brief account on rock garden.
- 14 a Describe in brief the cultivation of Crvsanthemum.  
OR
- b List out the uses of pepper.
- 15 a With a labeled sketch describe the structure of photosynthetic apparatus.  
OR
- b Enumerate the physiological role of auxins.

SECTION - C (30 Marks)

Answer any THREE Questions

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

- 16 Write an essay on the isolation, culture and importance of protoplasts.
- 17 Explain the industrial production of antibiotics you have studied.
- 18 Write an essay on the principles of garden designing.
- 19 Give a detailed account on propagation, cultivation and marketing of turmeric.
- 20 Explain the Calvin cycle. Add a note on its significance.