

**LOYOLA COLLEGE (AUTONOMOUS), CHENNAI – 600 034**

**B.Sc. DEGREE EXAMINATION – PLANT BIOLOGY & PLANT BIO-TECH.**

FIRST SEMESTER – NOVEMBER 2007

**PB 1504 - PRINCIPLES OF HORTICULTURE**

AE 2

Date : 03/11/2007  
Time : 1:00 - 4:00

Dept. No.

Max. : 100 Marks

**PART A**

**Answer All questions**

(20 marks )

I Choose the Correct Answer :

( 5 x 1 = 5 marks)

01. The branch of science dealing with field management  
a) agriculture    b) horticulture    c) floriculture    d) Agronomy
02. Hormones used for the initiation of roots.  
a) IBA    b) BAP    c) IAA    d) 2,4- D
03. Which of the following is used as a specimen tree?  
a) Gulmohar    b) Cassia    c) Ravenela    d) Parkia
04. Disbudding and removal of suckers is practiced in  
a) Chrysanthemum    b) Dahlia    c) Rose    d) Balsam
05. Statement A: Carnation is used as a cut flower  
Statement B: It belongs to Asteraceae  
a) Statement A is correct, but B is incorrect  
b) Statement A is incorrect, but B is correct  
c) Both Statement A and B are correct  
d) Both Statement A and B are incorrect

II State whether the following statements are True or False :

( 5 x 1 = 5 marks)

06. The rooted plant in grafting is called as stock.  
07. Blue green algae is used as bio fertilizer.  
08. *Hibiscus* can be used for preparing edges.  
09. Transplantation is practiced in Papaya.  
10. *Gladiolus* is an important cut-flower used in bouquets.

III. Complete the following :

( 5 x 1 = 5 marks)

11. Lalbagh is situated at \_\_\_\_\_  
12. \_\_\_\_\_ is used as artificial soil.  
13. *Cynodon* is mainly used for \_\_\_\_\_ preparation.  
14. Lawns are watered by \_\_\_\_\_ irrigation.  
15. *Zerbera* belongs to the family \_\_\_\_\_.

IV. Answer all, each within 50 words

( 5 x 1 = 5 marks)

16. What is mist chamber?  
17. Mention any two green leaf manure.  
18. Give any 4 examples of indoor plants.  
19. Define drip irrigation.  
20. Name any 4 species used as cut-flower

## PART B

Answer any five, each within 350 words only. Draw diagrams and flowcharts wherever necessary.

( 5 x 8 = 40 marks)

21. Define Hydroponics. Explain the methodology of soil-less culture. Add a note on their merits and demerits.
22. Write notes on nursery structure.
23. Describe the general classification of vegetable crops.
24. Discuss briefly about Fences and Hedges.
25. Write notes on Pruning and Topiaries.
26. Bring out the salient features of water gardens.
27. What is bonsai? Explain the methods involved and the types of Bonsai.
28. Give a detailed account of various methods of flower arrangements.

## PART C

Answer the following, each within 1500 words only. Draw diagrams and flowcharts wherever necessary.

( 2 x 20 = 40 marks)

29. a. i. Write notes on Pergolas and arches. Mention the plants suitable for these structures.  
ii. Write an essay on Manure.

(Or)

- b. i. Describe the botanical features of any four famous gardens of South India.  
ii. Give an account of general classification of vegetable crops and pomology

30. a. Write notes on :
  - i. Rock garden
  - ii. Roof garden
  - iii Terrace Garden
  - iv. Carpet bed

(Or)

- b. Give a detailed account of Cultivation practices for rose.

\*\*\*\*\*