

Reg. No. : .....

Name : .....

**Sixth Semester B.Sc. Degree Examination, April 2018**  
**First Degree Programme Under CBCSS**  
**Botany**  
**Core Course**  
**BO 1643 : HORTICULTURE, PLANT BREEDING AND RESEARCH**  
**Methodology**  
**(2014 Admission Onwards)**

Time : 3 Hours

Max. Marks : 80

***Instruction : Draw diagrams wherever necessary.***

SECTION – A

I. Answer all questions in one word to two sentences. Each question carries 1 mark.

- 1) Define a clone.
- 2) Heterosis.
- 3) Define emasculation.
- 4) Scion.
- 5) Pictograms.
- 6) Secondary data.
- 7) Uses of sphagnum.
- 8) What are florigens ?
- 9) Name a chemical fertilizer.
- 10) Arboriculture.

(10×1=10 Marks)



## SECTION - B

II. Answer any eight questions; not to exceed a paragraph. Each question carries two marks.

- 11) What are cold frames ?
- 12) Topiary.
- 13) Back cross and its significance.
- 14) Define plant introduction. Give two examples of crop varieties introduced to India.
- 15) Name any two important national plant breeding institutes.
- 16) Preparation of potting mixture.
- 17) What do you mean by interpretation of results ?
- 18) Plant quarantine and its importance.
- 19) Differences between diagrams and graphs.
- 20) Randomized blocks.
- 21) Irrigation methods used in horticulture.
- 22) What are carpet beds ?

(8×2=16 Marks)

## SECTION - C

III. Answer any six questions, not to exceed 120 words. Each question carries four marks.

- 23) Importance of organic fertilizers in horticulture.
- 24) Give an account of the different styles of bonsai.
- 25) Garden implements and accessories.
- 26) Breeding techniques in coconut.
- 27) What is pure line selection ? Describe the procedure.

- 28) Write a brief account on green house and its importance.
- 29) Modes of indoor gardening.
- 30) What are the types of research ?
- 31) Inbreeding depression and its genetic basis. **(6×4=24 Marks)**

SECTION – D

IV. Write essay on **any two** of the following, **not** more than **three** pages. **Each** question carries **15** marks.

- 32) Give an account of the various methods of plant propagation. Add a note on the significance of the various methods.
- 33) Describe the importance of mutation breeding in crop improvement.
- 34) Explain the different types of flower arrangements. Add a note on the containers for flower arrangements.
- 35) Give a brief account on the preparation of a project report. **(2×15=30 Marks)**

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