(Pages : 3) E – 1713

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)

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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)

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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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