

B. Sc. DEGREE (C.B.C.S.S) EXAMINATION, MARCH 2018**(2015 Admission Regular)****SEMESTER VI - CORE (BOTANY)****BO6B10TB - PLANT BREEDING AND HORTICULTURE****Time : 3 Hours****Maximum Marks : 60****Part A****I. Answer all questions. Each question carries 1 marks**

1. Who is the father of plant breeding? What is his contribution?
2. Give the names of two cross pollinated crops.
3. Give two examples for physical mutagens.
4. What are the advantages of cutting?
5. What is pruning?

(5x1=5)**Part B****II. Answer any Five questions. Each question carries 2 marks**

6. Name two agencies of plant introduction in India.
7. Explain pure line selection.
8. Explain Polyploidy breeding.
9. What is seed dormancy? What is its advantage?
10. Give a brief account on the soil types of Kerala.
11. Explain the importance of lawn in gardens. Give the scientific names of two lawn grass varieties.
12. Give an account on packing and transporting of fruits.
13. Write on the common organic manures used in gardening.

(5x2=10)**Part C****III. Answer any Five questions. Each question carries 5 marks**

14. Write an account on the procedure for plant introduction.
15. Differentiate heterosis and inbreeding depression with suitable examples.
16. Explain the role of Apomixis in plant breeding.
17. Explain the causes of seed dormancy. What are the methods to overcome this dormancy?
18. With examples discuss the role of microbes in soil enrichment.
19. Write an account on the various post harvest practices of fruits and vegetables.
20. What is an aquatic garden? Explain the designing and setting up of a water garden.
21. What is the importance of trees in ornamental gardening?

(5x5=25)**Part D****IV. Answer any Two questions. Each question carries 10 marks**

22. What is selection? Write on the different methods of selection.
23. Explain Polyploidy breeding and its application in crop improvement.
24. What is horticulture? Write an account on the significance and the various branches of horticulture.
25. What is landscape gardening? Explain the various components of an outdoor ornamental garden.

(2x10=20)