**Question Bank-6**

**Course- B.Sc. Biotechnology 6th Semester, B.Sc. CBZ 6th Semester**

**Subject: Genetics & Plant Breeding**

 **Topic: Crop Improvement**

1. **Multiple Choice Questions:**
2. Triticale is developed through the intergeneric hybridization of

a) Wheat and rye

 b) Maize and rice

c) Wheat and rice

 d) Wheat and barley

1. Breeding crops for improved nutritional quality is referred as
2. Biomagnification
3. Biofortification
c) Bioaccumulation

d) None of the above

1. Albinism in plants is associated with
2. Recessive lethal
3. Epistatis
4. Dominant lethal
5. Chromosome duplication
6. A plant with genotype Gg Ww will produce gametes of which of the following types?
7. GW, gw, gW,Gw
8. GG,WW, gg,ww
9. Gw, GG, GW
10. All of these
11. A plant breeder is interested to control pollination to
12. Prevent cross-pollination
13. Control pollination
14. None of these
15. Both of these
16. Polyploidy is induced through. ...
17. Pure line breed refers to………..
18. The new varieties of plants are produced by. ...
19. The quickest method of plant breeding is. ...
20. Bagging is done in order to avoid…………….
21. **Short Questions**
22. What is selection? Give its types.
23. What are the advantages of selection?
24. Give conditions for selection.
25. Is it possible to develop crop varieties by breeding techniques to suit intrinsic soil properties for rain-fed condition?
26. What are different branches of plant breeding?
27. What are objectives of plant breeding?
28. What is the role of plant physiology in plant breeding?
29. How knowledge of plant pathology and entomology is useful in plant breeding?
30. What is the role of biochemistry in plant breeding?
31. What is the role of biotechnology in crop improvement?
32. How computers are useful in plant breeding?
33. When Borlaug was awarded Nobel Prize?
34. **Long Questions**
35. Give application of genetics in plant improvement.
36. What is genetic variability? Give its importance.
37. How is the new variety released?
38. [In what condition back cross utilized in crop improvement in plant breeding?](https://www.researchgate.net/post/In_what_condition_back_cross_utilized_in_crop_improvement_in_plant_breeding)
39. Discuss the improvement of a crop variety using suitable example.