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S – 7637

Reg. No. :

Name :

Third Semester M.Sc. Degree Examination, February 2024

Botany

**BO 232 : PLANT BREEDING, HORTICULTURE, BIostatISTICS AND
COMPUTER APPLICATION**

(2001 – 2002 Admission)

Time : 3 Hours

Max. Marks : 75

I. Answer **all** questions in **one** or **two** sentences. Each question carries **1** mark.

1. Who is the Father of green revolution in India?
2. Define non recurrent apomixes.
3. What is Super Rice 2000?
4. Name two plants grown in glass houses.
5. What is Arboriculture?
6. Name a few common plants grown indoor.
7. Give the formula for calculating Mean.
8. Define probability.
9. What are Main Frame Computers?
10. Define Websites.

(10 × 1 = 10 Marks)

P.T.O.



II. Answer the following questions in not more than **50** words.

11. (a) Explain the importance of cross pollination.

OR

(b) Comment on the disadvantages of self pollination.

12. (a) Differentiate between gametic and zygotic sterility.

OR

(b) Describe the role of apomixis in plant breeding.

13. (a) Differentiate between green manure and compost.

OR

(b) Comment on the different types of pesticides used in gardening.

14. (a) Which are the common measures of dispersion in Biostatistics?

OR

(b) What is the significance of calculating variance of a biological data?

15. (a) What is Binomial distribution in biostatistics?

OR

(b) Differentiate chi square test from student t test.

(5 × 2 = 10 Marks)

III. Answer the following in not more than **150** words.

16. (a) Explain the different methods employed for emasculation.

OR

(b) Comment on the barriers of self pollination.



17. (a) Explain the types of pollination which occurs in plants in relation floral biology.

OR

(b) What is the role of intergeneric and interspecific hybridization in plant improvement?

18. (a) Give an account of back cross breeding technique and its achievements in plant breeding.

OR

(b) Comment on polyploidy breeding and its types.

19. (a) Describe heterosis and its genetic basis.

OR

(b) Explain heterosis and its physiological basis.

20. (a) Give an account of germplasm resources.

OR

(b) Give an account of the significance of sterility in plant breeding.

21. (a) Describe the method of grafting and cutting techniques used in plant propagation.

OR

(b) Explain the method of setting up of a vegetable garden.

22. (a) What is multimedia? Explain its uses.

OR

(b) Briefly explain the salient features and uses of

(i) MS Word

(ii) MS Excel.

(7 × 5 = 35 Marks)



IV. Answer the following in not more than **250** words.

23. (a) Explain resistance breeding and its types. How is the technique utilized to combat diseases in plants?

OR

- (b) Describe *in situ* and *ex situ* methods of conservation of plants.

24. (a) Briefly explain commercial floriculture and its role in economy of a country with reference to India.

OR

- (b) Give an account of the components of a computer and its functions.

(2 × 10 = 20 Marks)

