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B.Sc. VIth Semester Degree Examination BOTANY

(Cytology Genetics Plant Breeding, Biostatistics)
Paper - 6.1

Time: 3 Hours

Maximum Marks: 80

Instructions to Candidates:

- 1) Answer All the Questions.
- 2) Draw diagram wherever necessary.

Section -A

L. Answer the following questions in one word or One sentence each

 $(1 \times 15 = 15)$

- 1. Who discovered Nucleic acids?
- 2. What are Racker's particles
- 3. Where do you find poly. A. Tail
- 4. Define Euploidy
- 5. What is deletion?
- 6. What are cristae
- 7. What is inbreeding?
- 8. Mention the Ratio of dihybrid test-cross
- 9. What is an allele?
- 10. Define regression.

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- 11. What is Emasculation?
- 12. What is Heterosis?
- 13. What is Adenosine?
- 14. What is Criss-Cross inheritance?
- 15. What are Autosomes?

Section -B

II. Answer any Five of the following.

 $(5 \times 5 = 25)$

- 16. What is complementary gene interaction? Explain with a suitable example.
- 17. With a labelled diagram explain the ultra structure of chloroplast.
- 18. What is linkage? Explain linkage in Maize
- Describe transfer RNA.
- 20. What are an euploids? Explain monosomy and Nullisomy.
- 21. Describe salivary gland chromosome.
- 22. What is Hybridization? Mention the steps involved in it.

Section -C

Answer any Four of the following

 $(4 \times 10 = 40)$

- 23. What is replication? Explain the semiconservative type of DNA replication.
- 24. What is protein synthesis? Explain translation in protein synthesis.
- 25. With the suitable example, explain Mendel's law of independent assortment.
- 26. What is Multiple Allelism? Explain with reference to coat colour in Rabbit
- 27. What are chromosomal abberations? Explain Inversion.

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- 28. In poultry the white plumage of white leghorn "IICC" is dominant over white plymouth Rock "iicc" what will be the results of following crosses.
 - 1 IiCc × iicC
 - 2 IICc × iiCc

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