

Roll No. Total No. of Pages: 02

Total No. of Questions: 09

B.Sc.(Agriculture) (2014 & Onwards) (Sem.-3)

INTRODUCTION TO GENETICS

Subject Code: BSAG-304 Paper ID: [72554]

Time: 3 Hrs. Max. Marks: 60

INSTRUCTIONS TO CANDIDATES:

- SECTION-A is COMPULSORY consisting of TEN questions carrying TWO marks each.
- SECTION-B contains FIVE questions carrying FIVE marks each and students 2. have to attempt any FOUR questions.
- SECTION-C contains THREE questions carrying TEN marks each and students have to attempt any TWO questions.

SECTION-A

- W.F.irsiPanker.com 1. Define or briefly describe the following:
 - a) Anticodon
 - b) Idiogram
 - c) Pedigree
 - d) Karyotyping
 - e) RNA polymerase
 - f) Frame shift mutation
 - g) G phase
 - h) Translation
 - i) Sigma factor
 - j) Heterochromatin



SECTION-B

- 2. Discuss Mendel's laws of inheritance.
- 3. Briefly explain the process of crossing over.
- 4. Discuss the methods to induce mutation.
- 5. Differentiate between meiosis and mitosis with the help of a diagram.
- 6. Discuss various factors which effect linkage.

SECTION-C

- 7. Give a detailed account of translation process.
- 8. Write a note on RNA explaining its structure and function.
- 9. Discuss evolution of cotton crop.

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