Roll No. Total No. of Pages: 02

Total No. of Questions: 09

B.Voc. (Agriculture) (Sem.-2) INTRODUCTION TO GENETICS

Subject Code: BVAG-202-18

M.Code: 79596

Date of Examination: 05-07-22

Time: 3 Hrs. Max. Marks: 60

INSTRUCTIONS TO CANDIDATES:

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

SECTION-A

1. Write briefly:

- a) Okazaki fragments
- b) Down syndrome
- c) Nucleic acid
- d) Lamp brush chromosomes
- e) Z-DNA
- f) Equational division
- g) Color blindness
- h) Pseudo allele
- i) Point migation
- i) XXY condition.

1 M-79596 (S2)-302

SECTION-B

Differentiate between:

- 2. Nucleotide and Nucleoside
- 3. Sex linked and Sex influenced Traits
- 4. Positive and Negative control of gene regulation
- 5. Physical mutagens and Chemical mutagens
- 6. Translocation and Inversion.

SECTION-C

- 7. Discuss in detail the process of translation (draw neat and well labeled diagram). Also discuss the characteristic features of genetic code.
- 8. a) Prove that DNA is a genetic material by citing suitable experimental evidence.
 - b) Explain cytoplasmic inheritance with suitable examples (any two).
- 9. a) Discuss the evolutionary history of cotton.
 - b) Explain the mechanisms (any two) of crossing over.

NOTE: Disclosure of Identity by writing Mobile No. or Making of passing request on any page of Answer Sheet will lead to UMC against the Student.

2 | M-79596 (S2)-302