Roll No. Total No. of Pages : 02

Total No. of Questions: 09

B.Sc - Honours (Food Technology) (Sem.-3) INTRODUCTION TO BIOLOGY

Subject Code: BSCGE-201-21

M.Code: 92933

Date of Examination: 19-12-22

Time: 3 Hrs. Max. Marks: 60

INSTRUCTIONS TO CANDIDATES:

- 1. SECTION-A contains SIX questions carrying TWO marks each and students has to attempt ALL questions.
- SECTIONS-B consists of FOUR Subsections: Units-I, II, III & IV. Each Subsection contains TWO questions each carrying TWELVE marks each and student has to attempt any ONE question from each Subsection.

SECTION-A

1. Define following:

- a. Prokaryotes
- b. Phylogeny
- c. Genotype
- d. H-Bond
- e. Covalent Bond
- f. DNA Transcription.

SECTION-A

UNIT-I

- 2. What are Species? Discuss in details the mechanism of Speciation.
- 3. What is Oparin and Haldane theory of origin of life? Discuss the experiments of Miller & Urey in support of Oparin & Haldane Theory.

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UNIT-II

- 4. What do you understand by Central Dogma? Discuss in brief the mechanism of DNA Replication in Eukaryotes.
- 5. Discuss various Mendel's Laws of Inheritance in details with Monohybrid or Dihybrid Cross.

UNIT-III

- 6. Elaborate on the various properties of Water which makes it ideal for origin of life.
- 7. Discuss various types of bonds which are essential for formation of biomolecules and their stability.

UNIT-IV

- 8. What are Proteins? Discuss the Secondary & Tertiary structure of proteins.
- 9. What are Carbohydrates? Discuss types, structure and properties of Carbohydrates in brief.

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

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