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Total No. of Printed Pages: 1

Total No. of Questions: [09]

B.Sc. Agriculture (Semester –VII)
INTRODUCTION TO MOLECULAR BIOTECHNOLOGY
Subject Code: BAGE1780
Paper ID: [130153]

Time: 03 Hours

Maximum Marks: 60

Instruction for candidates:

1. Section A is compulsory. It consists of 10 parts of two marks each.
2. Section B consist of 5 questions of 5 marks each. The student has to attempt any 4 questions out of it.
3. Section C consist of 3 questions of 10 marks each. The student has to attempt any 2 questions.

Section – A

(2 marks each)

Q1. Attempt the following:

- a. Central Dogma
- b. Prokaryotes
- c. Vectors
- d. R-DNA-Technology
- e. GMO's
- f. Primer
- g. Marker
- h. PCR
- i. Replication
- j. Gene Cloning

Section – B

(5 marks each)

- Q2. Write down the scope and importance of Biotechnology
- Q3. Write about Gene Cloning and its approaches
- Q4. What is DNA Sequencing
- Q5. Explain DNA Ligation
- Q6. What is Biosafety guidelines for GMO's

Section – C

(10 marks each)

- Q7. Describe Genome Organization in Prokaryotes and Eukaryotes with diagram
- Q8. What is Genetic Engineering and Transgenics
- Q9. Explain Gene Mapping and Marker Assisted Breeding