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Total No. of Pages : 02

Total No. of Questions : 09

B.Sc.(BT) (2014 to 2017) (Sem.-5)
AGRICULTURAL BIOTECHNOLOGY

Subject Code : BSBT-307

M.Code : 47059

Time : 3 Hrs.

Max. Marks : 60

INSTRUCTIONS TO CANDIDATES :

1. 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**Q1. Write briefly on :**

- a) Transgenic plant
- b) Gene silencing
- c) Abiotic stress resistance
- d) Transformation
- e) *Azotobacter*
- f) Degradative Plasmids
- g) Xenobiotic compounds
- h) Insecticides
- i) Crop rotation
- j) Agricultural biotechnology

SECTION-B

- Q2. What are the diagnostic tools in agriculture?
- Q3. How gene silencing is measured?
- Q4. Discuss the impact of release of genetically engineered microbes in nature.
- Q5. How nitrogen fixing capabilities can be modified in microbes?
- Q6. What is bioremediation and its importance?

SECTION-C

- Q7. Describe the basic concept and essential steps for production of transgenics.
- Q8. Explain the applications of various microbial inoculants in the environment.
- Q9. What are the applications of biochips in modern sciences?

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.