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Total No. of Pages : 02

Total No. of Questions : 09

**B.Sc. (BT) (Sem.-6)**  
**BIOTECHNOLOGY & HUMAN WELFARE**  
**Subject Code : BSBT-148-18**  
**M.Code : 79459**  
**Date of Examination : 04-01-2023**

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** **THREE** questions carrying **TEN** mark each and students have to attempt any **TWO** questions.

**SECTION-A**

**1. Write briefly :**

- a) Define Pollutants.
- b) Define Composting.
- c) What are Bioreactors?
- d) What is alcoholic fermentation?
- e) Define Artificial Insemination.
- f) List names of Microbes involved in Nitrogen Fixation.
- g) Define Protein engineering.
- h) What are biodegradable polymers? Give examples.
- i) What is the role of heeding and weeding in Livestock improvement?
- j) Which microbes work in anaerobic digesters? Give examples.

### **SECTION-B**

2. Write about Nitrogen fixation.
3. Why and how are Proteins engineered?
4. Write a note on Human Genome Project.
5. Briefly discuss development and application of Recombinant live vaccines.
6. Deliberate on Industrial production of alcohols.

### **SECTION-C**

7. Elaborate on objectives and methodologies employed for Livestock improvement.
8. Explain principle and strategies used for development of Biodegradable polymers. Also discuss applications.
9. Discuss Role/applications and methods of forensic biotechnology with special reference to DNA Fingerprinting.

**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.**